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OM nucleic - nucleic search, using sw model

Run on: March 31, 2005, 23:15:04 ; Search time 443 Seconds  
(without alignments)  
10105.763 Million cell updates/sec

Title: US-10-798-721-9  
Perfect score: 2736  
Sequence: 1 atgggagagcgcgccac.....gcaggcaaatgactctag 2736

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA:\*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq:\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2736	100.0	2736	4	US-09-969-532-9
2	2736	100.0	3411	4	US-09-969-532-33
3	2660	97.2	2703	4	US-09-969-532-11
4	2642	96.6	2694	4	US-09-969-532-13
5	2566	93.8	2661	4	US-09-969-532-15
6	2043	74.7	2043	4	US-09-969-532-25
7	1967	71.9	2010	4	US-09-969-532-27
8	1949	71.2	2001	4	US-09-969-532-29
9	1873	68.5	1968	4	US-09-969-532-31
10	1640	59.9	1734	4	US-09-969-532-1
11	1564	57.2	1701	4	US-09-969-532-3
12	1546	56.5	1692	4	US-09-969-532-5
13	1470	53.7	1659	4	US-09-969-532-7
14	947	34.6	1041	4	US-09-969-532-17
15	871	31.8	1008	4	US-09-969-532-19
16	853	31.2	999	4	US-09-969-532-21
17	777	28.4	966	4	US-09-969-532-23
18	544	19.9	2831	2	US-08-808-982-3
19	544	19.9	2831	3	US-09-306-902A-3
20	487	17.8	3014	2	US-08-808-982-1
21	487	17.8	3014	3	US-09-306-902A-1
22	356.4	13.0	3008	4	US-09-949-016-4794
23	252.4	9.2	1787	2	US-08-808-982-2
24	252.4	9.2	1787	3	US-09-306-902A-2
25	166.6	6.1	771	1	US-08-253-155A-17
26	94.6	3.5	114139	4	US-09-949-016-16536
27	69.6	2.5	305	2	US-08-808-982-4

RESULT 1  
US-09-969-532-9  
; Sequence 9, Application US/09969532  
; Patent No. 6777232  
; GENERAL INFORMATION:  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Scoville, John  
; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides Encodi  
; FILE REFERENCE: LEX-0244-USA  
; CURRENT APPLICATION NUMBER: US/09/969,532  
; CURRENT FILING DATE: 2001-10-02  
; PRIOR APPLICATION NUMBER: US 60/237,280  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 9  
; LENGTH: 2736  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-09-969-532-9

## ALIGNMENTS

28	69.6	2.5	305	3	US-09-306-902A-4	Sequence 4, Appli
29	62.6	2.3	601	4	US-09-949-016-169999	Sequence 169999,
30	57	2.1	601	4	US-09-949-016-170033	Sequence 170033,
31	50.2	1.8	349	4	US-09-471-276-345	Sequence 345, App
32	49.6	1.8	601	4	US-09-949-016-170040	Sequence 170040,
33	49.6	1.8	601	4	US-09-949-016-170041	Sequence 170041,
34	47	1.7	601	4	US-09-949-016-170000	Sequence 170000,
35	46	1.7	19326	4	US-09-949-016-16776	Sequence 16776, A
36	42.4	1.5	4548	4	US-09-571-479C-5	Sequence 5, Appli
37	42.2	1.5	7218	1	US-08-232-463-14	Sequence 14, Appl
38	40	1.5	601	4	US-09-949-016-170034	Sequence 170034,
39	39.8	1.5	75929	4	US-09-949-016-15543	Sequence 15543, A
40	39.8	1.5	75929	4	US-09-949-016-15544	Sequence 15544, A
41	39.6	1.4	505	4	US-09-621-976-15639	Sequence 15639, A
42	39	1.4	1507	4	US-09-270-767-1278	Sequence 1278, Ap
43	39	1.4	1507	4	US-09-270-767-16560	Sequence 16560, A
44	38	1.4	1141	4	US-09-806-708B-22	Sequence 22, Appl
45	37.8	1.4	7218	1	US-08-232-463-14	Sequence 14, Appl

Query Match 100.0%; Score 2736; DB 4; Length 2736;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2736; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	ATCGGAGAGCGCGCGCCACCGCAGCGCGCGCGGAGGCGCGCGCTGGCTCCCTGG 60
Db	1	ATCGGAGAGCGCGCGCCACCGCAGCGCGCGCGGAGGCGCGCGCTGGCTCCCTGG 60
Qy	61	CTGGGGCTGTCTTCTGGGGCGGAGGACCGCGGTCGCCGAGGAACTGACATGGCGAA 120
Db	61	CTGGGGCTGTCTTCTGGGGCGGAGGACCGCGGTCGCCGAGGAACTGACATGGCGAA 120
Qy	121	GCCTTTCCGGAATCCATCCATCAGCTCTTGGGACACTGCCTCATTTATAGAGGCCA 180
Db	121	GCCTTTCCGGAATCCATCCATCAGCTCTTGGGACACTGCCTCATTTATAGAGGCCA 180
Qy	181	GATGATGCTTATATATCAAGACACCTTATTCACATCAGGTGCAAGGAGGCCAGCC 240
Db	181	GATGATGCTTATATATCAAGACACCTTATTCACATCAGGTGCAAGGAGGCCAGCC 240
Qy	241	ATCAGATATTTCTTCAAAATGCAACGCGAGTGGTCCATCAGAACAGACGCTCTGAA 300
Db	241	ATCAGATATTTCTTCAAAATGCAACGCGAGTGGTCCATCAGAACAGACGCTCTGAA 300
Qy	301	GAGACTCTGACGAGAGCTCAGGTTTGAAGTCCGCGAAGTGTTCATCAATGTTACTAGG 360
Db	301	GAGACTCTGACGAGAGCTCAGGTTTGAAGTCCGCGAAGTGTTCATCAATGTTACTAGG 360
Qy	361	CAACAGGTGGAGACTTCCATGGCCCGGAGGACTATTGGTGCACGAGTGTGGCGTGGAGC 420

Db	361	CAACAGGTGAGGACTTCCATGGGCCGAGGACTATTGGTGCAGTGTGGCGTGGAGC	420
Qy	421	CACCTGGGTACTTCCAGAGCAGGAAGGCTCTGTGCGCATAGCCTATTACGGAAAC	480
Db	421	CACCTGGGTACTTCCAGAGCAGGAAGGCTCTGTGCGCATAGCCTATTACGGAAAC	480
Qy	481	TTTGAACAAGACCCACAGAGGAGGAGTTCCCATTTGAAGGCATGATTCTACTGCACTGC	540
Db	481	TTTGAACAAGACCCACAGAGGAGGAGTTCCCATTTGAAGGCATGATTCTACTGCACTGC	540
Qy	541	CGCCACCCAGAGGAGTCCCTGTCTGCGAGGTGGAAATGGCTGAAAAATGAAGAGCCATT	600
Db	541	CGCCACCCAGAGGAGTCCCTGTCTGCGAGGTGGAAATGGCTGAAAAATGAAGAGCCATT	600
Qy	601	GACTCTGAACAAGACAGGAACATTGACACAGGGCTGACCATTAACCTGATCATCAGGCAG	660
Db	601	GACTCTGAACAAGACAGGAACATTGACACAGGGCTGACCATTAACCTGATCATCAGGCAG	660
Qy	661	GCACGGCTCTCGGACTCAGGAATTTACCTGTCATGGCAGCCAAACATCGTGGCTAAGAGG	720
Db	661	GCACGGCTCTCGGACTCAGGAATTTACCTGTCATGGCAGCCAAACATCGTGGCTAAGAGG	720
Qy	721	AGAAGCCTCTCGGCACTGTTGTGTTCTACCTGGATGGGAGCTGGAAAGTGTGGAGCAA	780
Db	721	AGAAGCCTCTCGGCACTGTTGTGTTCTACCTGGATGGGAGCTGGAAAGTGTGGAGCAA	780
Qy	781	TGCTCGCTCTCGAGTCCAGAGTGTGAACATTTGCGGATCCGGAGTGGACACACCC	840
Db	781	TGCTCGCTCTCGAGTCCAGAGTGTGAACATTTGCGGATCCGGAGTGGACACACCC	840
Qy	841	CCGAGAAATGGGGCAAAATCTGTGAAGTCTAAGCCAGGAATCTGAAAACTGCACAGAT	900
Db	841	CCGAGAAATGGGGCAAAATCTGTGAAGTCTAAGCCAGGAATCTGAAAACTGCACAGAT	900
Qy	901	GGTCTTTGCACTCTAGATAAAAAACCTCTTCATGAAATAAAACCCCAAGCAATTGAGAT	960
Db	901	GGTCTTTGCACTCTAGATAAAAAACCTCTTCATGAAATAAAACCCCAAGCAATTGAGAT	960
Qy	961	GCACGACATTTGTTGTTACTCGGGCTTGGGTGCTGCGCTGCTGGCGTTCAGTCTCTG	1020
Db	961	GCACGACATTTGTTGTTACTCGGGCTTGGGTGCTGCGCTGCTGGCGTTCAGTCTCTG	1020
Qy	1021	GTCAATGGTGTACCCCTTACAGACGGAGCCAGAGTGAATATGCGGTGGACGTCATTGAC	1080
Db	1021	GTCAATGGTGTACCCCTTACAGACGGAGCCAGAGTGAATATGCGGTGGACGTCATTGAC	1080
Qy	1081	TCCTTCGATGACAGGTGGCTTCCAGACCTTCAACTTTCAAAACAGTCCGTCAGCCAG	1140
Db	1081	TCCTTCGATGACAGGTGGCTTCCAGACCTTCAACTTTCAAAACAGTCCGTCAGCCAG	1140
Qy	1141	AATATCATGAACTAATGATACAGAAAAATCCCTTTGGTAACCTCCCTGCTCCTGAATCT	1200
Db	1141	AATATCATGAACTAATGATACAGAAAAATCCCTTTGGTAACCTCCCTGCTCCTGAATCT	1200
Qy	1201	GCCATGACGCCAGATCTGACAGTGGAGCCGAGCATACAGCGGACCCATCTCTGTCAGGAC	1260
Db	1201	GCCATGACGCCAGATCTGACAGTGGAGCCGAGCATACAGCGGACCCATCTCTGTCAGGAC	1260
Qy	1261	CCTCTGACAGGAGCTCATGACAGAGTCTCTCACTTTAACTTTGTCGGACATCAA	1320
Db	1261	CCTCTGACAGGAGCTCATGACAGAGTCTCTCACTTTAACTTTGTCGGACATCAA	1320
Qy	1321	GTGAAAGTCCAGAGCTGTTTCATGTTTCCCTGGGAGTGTCTGAGAGAGCTGAGTACCA	1380
Db	1321	GTGAAAGTCCAGAGCTGTTTCATGTTTCCCTGGGAGTGTCTGAGAGAGCTGAGTACCA	1380
Qy	1381	GGCAAGATCATTCAGAGCTTTTCCCATGGAACCAACAGCTTTAGTACATGCAT	1440
Db	1381	GGCAAGATCATTCAGAGCTTTTCCCATGGAACCAACAGCTTTAGTACATGCAT	1440
Qy	1441	CCCAGAAATAAATGCCCCTACATCCAAATCTGTCTACCTCCCAACAGGACAGAACTG	1500
Db	1441	CCCAGAAATAAATGCCCCTACATCCAAATCTGTCTACCTCCCAACAGGACAGAACTG	1500
Qy	1501	AGGCAAACTGTGTCTTTGGCCATTTAGGGGGGGCTTAGTAATCCCAATACAGGGGTG	1560
Db	1501	AGGCAAACTGTGTCTTTGGCCATTTAGGGGGGGCTTAGTAATCCCAATACAGGGGTG	1560
Qy	1561	AGCTTACTCATACACACGGTGCCATCCAGAGGAGAAATCTTGGGAGATTTATATGTC	1620
Db	1561	AGCTTACTCATACACACGGTGCCATCCAGAGGAGAAATCTTGGGAGATTTATATGTC	1620
Qy	1621	ATCAACCAAGGTGAACCCAGCCTCCAGTCAGATGCTCTGAGGTGCTCCTGAGTCTCTGAA	1680
Db	1621	ATCAACCAAGGTGAACCCAGCCTCCAGTCAGATGCTCTGAGGTGCTCCTGAGTCTCTGAA	1680
Qy	1681	GTCACTCTGTGTCTCTCCAGACATGATCGTCACTCTCCCTTTGGCATTCACATCCCGCAC	1740
Db	1681	GTCACTCTGTGTCTCTCCAGACATGATCGTCACTCTCCCTTTGGCATTCACATCCCGCAC	1740
Qy	1741	TGTGAGATGTCACTGTGAGCATTTGGAATATCCATTTAAAGAGAGACACAGCAGGCG	1800
Db	1741	TGTGAGATGTCACTGTGAGCATTTGGAATATCCATTTAAAGAGAGACACAGCAGGCG	1800
Qy	1801	AAATGGGAGGAGTGTCTGAGTGAAGTGAATCTACATCTCTGTTACTGCTTTTGGAC	1860
Db	1801	AAATGGGAGGAGTGTCTGAGTGAAGTGAATCTACATCTCTGTTACTGCTTTTGGAC	1860
Qy	1861	CCCTTTGGTGTCTCTGAGACATGATCGTCACTCTCCCTTTGGCATTCACATCCCGCAC	1920
Db	1861	CCCTTTGGTGTCTCTGAGACATGATCGTCACTCTCCCTTTGGCATTCACATCCCGCAC	1920
Qy	1921	ATCAACAGTGTGCGTGAAGCACTGAAGTGGGGTGGTGGCTGATGCTCTGTTTGAAC	1980
Db	1921	ATCAACAGTGTGCGTGAAGCACTGAAGTGGGGTGGTGGCTGATGCTCTGTTTGAAC	1980
Qy	1981	TCCTTGGATTACAACTTGAGATTTACTGTGTGGAACAATACCCCTTGTGCAITTCAGGAA	2040
Db	1981	TCCTTGGATTACAACTTGAGATTTACTGTGTGGAACAATACCCCTTGTGCAITTCAGGAA	2040
Qy	2041	GTGTTTTCAGATGAAAGGCATCAAGGTGGACAGCTCTCGGAGAAACCAAAATTTGTCAT	2100
Db	2041	GTGTTTTCAGATGAAAGGCATCAAGGTGGACAGCTCTCGGAGAAACCAAAATTTGTCAT	2100
Qy	2101	TTCAAGGGAATACCTTTAGTCTTCAGATTTCTGCTTGTATTTCCCTTCTCTG	2160
Db	2101	TTCAAGGGAATACCTTTAGTCTTCAGATTTCTGCTTGTATTTCCCTTCTCTG	2160
Qy	2161	AGAAATTAACCAATTCACCTGCTGCGAGGAGTCCCGTCTCCCGGTGTGTGCGAGTAA	2220
Db	2161	AGAAATTAACCAATTCACCTGCTGCGAGGAGTCCCGTCTCCCGGTGTGTGCGAGTAA	2220
Qy	2221	CGGAGCCCTGCACTGTGCTTCTCCCTGGAGGTTATACGCCCACTACCCAGCCAGCTG	2280
Db	2221	CGGAGCCCTGCACTGTGCTTCTCCCTGGAGGTTATACGCCCACTACCCAGCCAGCTG	2280
Qy	2281	TCCTGCAAAATCTGCAATTCGGCAGCTCAAGGCGCATGAACAGATCTCCAAAGTGCAGACA	2340
Db	2281	TCCTGCAAAATCTGCAATTCGGCAGCTCAAGGCGCATGAACAGATCTCCAAAGTGCAGACA	2340
Qy	2341	TCAATCTAGAGAGTGAACGAGAAACCAATCTTCTTCGCAACAGAGACAGCACTTTC	2400
Db	2341	TCAATCTAGAGAGTGAACGAGAAACCAATCTTCTTCGCAACAGAGACAGCACTTTC	2400
Qy	2401	CTTGACAGACTGGGCCCCAAAGCTTCAAAATTCCTTACTCCATCAGACAGCGGATTTGT	2460
Db	2401	CTTGACAGACTGGGCCCCAAAGCTTCAAAATTCCTTACTCCATCAGACAGCGGATTTGT	2460
Qy	2461	GCTACATTTGATACCCCAATGCCAAGGCAAGGAGTGGCAGATGTTAGCACAGAAAAAC	2520
Db	2461	GCTACATTTGATACCCCAATGCCAAGGCAAGGAGTGGCAGATGTTAGCACAGAAAAAC	2520
Qy	2521	AGCATCAACAGGAATTTATTTTCGCTACAAAGTAGCCCATCTGCTGCTCATTTTG	2580
Db	2521	AGCATCAACAGGAATTTATTTTCGCTACAAAGTAGCCCATCTGCTGCTCATTTTG	2580

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RESULT 2
US-09-969-532-33
; Sequence 33, Application US/09959532
; Patent No. 6777232
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: No. 6777232a1 Human Membrane Proteins and Polynucleotides Encoding
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/09/969,532
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 3411
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-969-532-33

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Db	1135	GTCAATGGTGTACCCCTTTACAGACGAGCCAGAGTGAATATGCGGTGGAGCATATGAC	
Qy	1081	TCCTTCGCAATGACAGGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGCCAAAG	1140
Db	1195	TCCTTCGCAATGACAGGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGCCAAAG	1254
Qy	1141	AATATCATGTGAACTAATGATACAAAGAAAAATCCTTTGGTAACTCCCTGTCTCTGCAATTCT	1200
Db	1255	AATATCATGTGAACTAATGATACAAAGAAAAATCCTTTGGTAACTCCCTGTCTCTGCAATTCT	1314
Qy	1201	GCCATGAGCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCTGTCTGCAGGAC	1260
Db	1315	GCCATGAGCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCTGTCTGCAGGAC	1374
Qy	1261	CCTCTGGAAGAAGAGCTCATGACAGAGTCTCTCACTCTTTAAACCTTTGTCCGACATCAAA	1320
Db	1375	CCTCTGGAAGAAGAGCTCATGACAGAGTCTCTCACTCTTTAAACCTTTGTCCGACATCAAA	1434
Qy	1321	GTGAAAGTCCAGAGCTCGTTTCATGGTTTCCTCGGAGTGCTCAGAGAGCTGAGTACCAC	1380
Db	1435	GTGAAAGTCCAGAGCTCGTTTCATGGTTTCCTCGGAGTGCTCAGAGAGCTGAGTACCAC	1494
Qy	1381	GGCAAGAATCATTTCCAGAGCTTTTTCCCATGGAAAAACAACACAGCTTTTAGTACAATGCAT	1440
Db	1495	GGCAAGAATCATTTCCAGAGCTTTTTCCCATGGAAAAACAACACAGCTTTTAGTACAATGCAT	1554
Qy	1441	CCCAGAAATAAAAATGCCCTACATCCAAAATCTGTCTCATCTCCCCACAAGGACAGAACTG	1500
Db	1555	CCCAGAAATAAAAATGCCCTACATCCAAAATCTGTCTCATCTCCCCACAAGGACAGAACTG	1614
Qy	1501	AGGACAACTGGTGTCTTTGGCCATTTAGGGGGGGCGCTTAGTAAATGCCAAAATACAGGGGGTG	1560
Db	1615	AGGACAACTGGTGTCTTTGGCCATTTAGGGGGGGCGCTTAGTAAATGCCAAAATACAGGGGGTG	1674
Qy	1561	AGCTTACTCATACACAGCGGTGCCATCCCAAGAGAGAAATCTCTGGGAGATTATATGTCC	1620
Db	1675	AGCTTACTCATACACAGCGGTGCCATCCCAAGAGAGAAATCTCTGGGAGATTATATGTCC	1734

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 1681 GTCACTGTGGTCTCCAGACATGATCGTCACCACTCCCTTTTGGCATTTGACCAATCCCGCAC 1740  
 1795 GTCACTGTGGTCTCCAGACATGATCGTCACCACTCCCTTTTGGCATTTGACCAATCCCGCAC 1854  
 1741 TGTGCAGATGTGAGTCTTGAGCATTTGGAATATCCATTTAAAGAAAGAGACACAGCAGGGC 1800  
 1855 TGTGCAGATGTGAGTCTTGAGCATTTGGAATATCCATTTAAAGAAAGAGACACAGCAGGGC 1914  
 1801 AAATGGAGGAAGTGTGAGTGGAGAGATGATCTACATCTGTTACTGCTTTTGGAC 1860  
 1915 AAATGGAGGAAGTGTGAGTGGAGAGATGATCTACATCTGTTACTGCTTTTGGAC 1974  
 1861 CCCTTTGCGTGTATGTCCTCGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCA 1920  
 1975 CCCTTTGCGTGTATGTCCTCGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCA 2034  
 1921 ATCAAGACATGTCCGTGAAGCAACTGAAGTGGCGGTTTTTGGCTGCGATGCTGTAAAC 1980  
 2035 ATCAAGACATGTCCGTGAAGCAACTGAAGTGGCGGTTTTTGGCTGCGATGCTGTAAAC 2094  
 1981 TCCCTGGATTTACAACTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCTTTTCAAGGAA 2040  
 2095 TCCCTGGATTTACAACTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCTTTTCAAGGAA 2154  
 2041 GTGGTTTTCAGATGAAGGCACTCAAGGTGGACAGCTCTCTGGAAGAACAAATTTGCTGCAT 2100  
 2155 GTGGTTTTCAGATGAAGGCACTCAAGGTGGACAGCTCTCTGGAAGAACAAATTTGCTGCAT 2214  
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 2161 AGAATTAACCACTTCACTGCTCGCAGGAAGTCCCGTTCTCCGCGTGTGTGTCAGTAAAC 2220  
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 2401 CTTGCACAGACTGGCCCCCAAGCCTTCAAAATTTCCCTATCTCCATTCAGACAGCGGATTTGT 2460  
 2515 CTTGCACAGACTGGCCCCCAAGCCTTCAAAATTTCCCTATCTCCATTCAGACAGCGGATTTGT 2574  
 2461 GCTACATTTGATACCCCAATGCAAGGCAAGGCTGGGAGATGTTTAGCAGAGAAAC 2520  
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 2521 AGCATCAACAGGAATTTATCTTATTTGCTACCAAAAGTAGCCCATCTGCTGTCATTTTG 2580  
 2635 AGCATCAACAGGAATTTATCTTATTTGCTACCAAAAGTAGCCCATCTGCTGTCATTTTG 2694  
 2581 AACCTGGGAAGCTGCTGATTCAGCATGATGGTGAATCTGATCTCCCTGGCCTGTGGCCTT 2640  
 2695 AACCTGGGAAGCTGCTGATTCAGCATGATGGTGAATCTGATCTCCCTGGCCTGTGGCCTT 2754  
 2641 GAGAGATTTGGAGGACACACAGAACTCTCAACATTTTCAGAACTCCAGCTTGTATGAA 2700  
 2755 GAGAGATTTGGAGGACACACAGAACTCTCAACATTTTCAGAACTCCAGCTTGTATGAA 2814

2701 GCCGACTTCAACTACAGCAGGCAAAATGGACTCTAG 2736  
 2815 GCCGACTTCAACTACAGCAGGCAAAATGGACTCTAG 2850  
 RESULT 3  
 US-09-969-532-11  
 ; Sequence 11, Application US/09969532  
 ; Patent No. 677232  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walke, D. Wade  
 ; APPLICANT: Scoville, John  
 ; TITLE OF INVENTION: No. 677232el Human Membrane Proteins and Polynucleotides Encodi  
 ; FILE REFERENCE: LEX-0244-USA  
 ; CURRENT APPLICATION NUMBER: US/09/969,532  
 ; PRIOR FILING DATE: 2001-10-02  
 ; PRIOR APPLICATION NUMBER: US 60/237,280  
 ; NUMBER OF SEQ ID NOS: 33  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 11  
 ; LENGTH: 2703  
 ; TYPE: DNA  
 ; ORGANISM: homo sapiens  
 ; US-09-969-532-11  
 Query Match 97.2%; Score 2660; DB 4; Length 2703;  
 Best Local Similarity 98.8%; Pred. No. 0;  
 Matches 2703; Conservative 0; Mismatches 0; Indels 33; Gaps 1;  
 1 ATGGGGAGAGCGCGGCCACCGCAGCGCGCGGAGGGCGCGCGTGGCTCCCGTGG 60  
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 301 GAGACTCTGGAGAGAGCTCAGGTTTGAAGGTTCCGGAAGTGTTCATCAATGTTACTAGG 360  
 361 CAACAGGTGGAGACTTCCATGGGCGCGAGGACTATTGTTGCGCAGTGTGGGTGGAGC 420  
 361 CAACAGGTGGAGACTTCCATGGGCGCGAGGACTATTGTTGCGCAGTGTGGGTGGAGC 420  
 421 CACCTGGGTACCTTCCAAAGGACAGGAGGCTCTGTGCGCATAGCCCTATTTTACGGAAGAAC 480  
 421 CACCTGGGTACCTTCCAAAGGACAGGAGGCTCTGTGCGCATAGCCCTATTTTACGGAAGAAC 480  
 481 TTTGAAACAAGACCCACAGAGAAAGGAAAGTTCCCAATGAAGGATGATTTGCTGCACTGC 540  
 481 TTTGAAACAAGACCCACAGAGAAAGGAAAGTTCCCAATGAAGGATGATTTGCTGCACTGC 540  
 541 CGCCCAACAGAGGAGTCCCTGCTGCGAGGTGGAAATGCTGAAATGAAGGCCCATTT 600  
 541 CGCCCAACAGAGGAGTCCCTGCTGCGAGGTGGAAATGCTGAAATGAAGGCCCATTT 600  
 601 GACTCTGAAACAGACAGAGAACATTGACACAGGGCTGACCAATACCTGATCATCAGGAG 660  
 601 GACTCTGAAACAGACAGAGAACATTGACACAGGGCTGACCAATACCTGATCATCAGGAG 660



QY 661 GCAGGCTCTCGACTCAGGAAATTACACCTGATGCGAGCCAACTCGTGGCTAAGAGG 720  
 Db 661 GCAGGCTCTCGACTCAGGAAATTACACCTGATGCGAGCCAACTCGTGGCTAAGAGG 720  
 QY 721 AGAAGCTGTGCGCACTGTGTGCTCTACGTGATGCGAGCTGGGAAGTGTGAGCGAA 780  
 Db 721 AGAAGCTGTGCGCACTGTGTGCTCTACGTGATGCGAGCTGGGAAGTGTGAGCGAA 780  
 QY 781 TGGTCCGTCTGCACTGAGTCCAGAGTGTGAACATTTGCGGATCCGGAGTGCACAGCACACCC 840  
 Db 781 TGGTCCGTCTGCACTGAGTCCAGAGTGTGAACATTTGCGGATCCGGAGTGCACAGCACACCC 840  
 QY 841 CCGAGAAATCGGGGCAAAATCTGTGAAGTCTAAGCCAGGAATCTGAAAATCTGCACAGAT 900  
 Db 841 CCGAGAAATCGGGGCAAAATCTGTGAAGTCTAAGCCAGGAATCTGAAAATCTGCACAGAT 900  
 QY 901 GGTCTTTGCACTCTAGATAAAAAACCTCTTCATGAAATAAAACCCCAAGCAATTTGAGAAAT 960  
 Db 901 GGTCTTTGCACTCTAG-----GCAATGAGAAAT 927  
 QY 961 GCCAGGCAATGCTTTGTACTCGGGCTTGGGTGCTGCGCTGCGGGCGGTGCGAGTCCCTG 1020  
 Db 928 GCCAGGCAATGCTTTGTACTCGGGCTTGGGTGCTGCGCTGCGGGCGGTGCGAGTCCCTG 987  
 QY 1021 GTCAATGGTGTCACTTGTACAGCGAGGCGAGTGAATGATGGCGTGGACGTCATTTGAC 1080  
 Db 988 GTCAATGGTGTCACTTGTACAGCGAGGCGAGTGAATGATGGCGTGGACGTCATTTGAC 1047  
 QY 1081 TCTTCTGCAATGACAGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAGGCCAAG 1140  
 Db 1048 TCTTCTGCAATGACAGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAGGCCAAG 1107  
 QY 1141 AATATCATGAACTAATGATACAGGAAATCTTTTGGTAACTCCCTGCTCTCTGAAATCT 1200  
 Db 1108 AATATCATGAACTAATGATACAGGAAATCTTTTGGTAACTCCCTGCTCTCTGAAATCT 1167  
 QY 1201 GCCATGAGCCAGATCTGACAGTGGCGGACATACAGCGGACCCATCTGTCTGCGAGGAC 1260  
 Db 1168 GCCATGAGCCAGATCTGACAGTGGCGGACATACAGCGGACCCATCTGTCTGCGAGGAC 1227  
 QY 1261 CCTCTGACAAAGAGCTCATGACAGAGTCTCTACTCTTTAAACCTTTTGTGCGACATCAA 1320  
 Db 1228 CCTCTGACAAAGAGCTCATGACAGAGTCTCTACTCTTTAAACCTTTTGTGCGACATCAA 1287  
 QY 1321 GTGAAAGTCCAGAGCTCGTTTCATGGTTTCCCTGGAGTGTCTGAGAGGCTGAGTACCAC 1380  
 Db 1288 GTGAAAGTCCAGAGCTCGTTTCATGGTTTCCCTGGAGTGTCTGAGAGGCTGAGTACCAC 1347  
 QY 1381 GGCAGAAATCATTTCCAGGACTTTTCCCATGGAACAAACCAAGCTTTAGTACAATGTCAT 1440  
 Db 1348 GGCAGAAATCATTTCCAGGACTTTTCCCATGGAACAAACCAAGCTTTAGTACAATGTCAT 1407  
 QY 1441 CCCAGAAATAAATGCCCTACATCCAAATCTGTCACTCTCCCAAGGACAGAGCTG 1500  
 Db 1408 CCCAGAAATAAATGCCCTACATCCAAATCTGTCACTCTCCCAAGGACAGAGCTG 1467  
 QY 1501 AGGACAACTGGTGTCTTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTG 1560  
 Db 1468 AGGACAACTGGTGTCTTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTG 1527  
 QY 1561 AGCTTACTCATACACAGGTGCAATCCAGAGAGGAAATCTTGGGAGATTTATATGTCC 1620  
 Db 1528 AGCTTACTCATACACAGGTGCAATCCAGAGAGGAAATCTTGGGAGATTTATATGTCC 1587  
 QY 1621 ATCAACCAAGGTGAAACCCAGCTCCAGTCAAGTGGCTCTGAGTGTCTCTGAGTCCCTGAA 1680  
 Db 1588 ATCAACCAAGGTGAAACCCAGCTCCAGTCAAGTGGCTCTGAGTGTCTCTGAGTCCCTGAA 1647  
 QY 1681 GTCACTGTGGTCTCTCAGACATGATCGTCAACACTCCCTTTGCAATGACCATCCCGCAC 1740  
 Db 1648 GTCACTGTGGTCTCTCAGACATGATCGTCAACACTCCCTTTGCAATGACCATCCCGCAC 1707

RESULT 4  
 US-09-532-13  
 ; Sequence 13, Application US/09969532  
 ; Patent No. 6777232

QY 1741 TGTGAGATGTGAGTCTGAGCAATTTGGAATATCCATTTAAAGAGGACACAGCAGGCG 1800  
 Db 1708 TGTGAGATGTGAGTCTGAGCAATTTGGAATATCCATTTAAAGAGGACACAGCAGGCG 1767  
 QY 1801 AAATGGAGGAAAGTGTGATGTGAGTGAAGTGAATCTACATCTGTTACTGCTTTTGGAC 1860  
 Db 1768 AAATGGAGGAAAGTGTGATGTGAGTGAAGTGAATCTACATCTGTTACTGCTTTTGGAC 1827  
 QY 1861 CCTTTTGGCGTGTCACTGCTCTGGAAGCTTTGGGACCTATGCGTCTCACTGAGAGCCCA 1920  
 Db 1828 CCTTTTGGCGTGTCACTGCTCTGGAAGCTTTGGGACCTATGCGTCTCACTGAGAGCCCA 1887  
 QY 1921 ATCAAGAGTGTGCGCTGGAAGCACTGGAAGTGGCGGTTTGGCTGCAATCTCTGTAAC 1980  
 Db 1888 ATCAAGAGTGTGCGCTGGAAGCACTGGAAGTGGCGGTTTGGCTGCAATCTCTGTAAC 1947  
 QY 1981 TCCCTGGATTTACAACTTTGAGAGTTTACTGTGTGGAACAATAACCCCTTTGTGCAATTTCAAGAA 2040  
 Db 1948 TCCCTGGATTTACAACTTTGAGAGTTTACTGTGTGGAACAATAACCCCTTTGTGCAATTTCAAGAA 2007  
 QY 2041 GTGGTTTCAGATGAAAGGCAATCAAGGTGGAAGCTCTCTGGAAGAAACCAAAATTTGCTGAT 2100  
 Db 2008 GTGGTTTCAGATGAAAGGCAATCAAGGTGGAAGCTCTCTGGAAGAAACCAAAATTTGCTGAT 2067  
 QY 2101 TTCAAAGGGAATACCTTTAGTCTTCAAGTTTCTGCTCTGATATTTCCCTCTCTG 2160  
 Db 2068 TTCAAAGGGAATACCTTTAGTCTTCAAGTTTCTGCTCTGATATTTCCCTCTCTG 2127  
 QY 2161 AGAATTTAAACCACTTCACTGCTGCCAGGAAGTCCCGTTCTCCGCGGTGGTGCAGTAAC 2220  
 Db 2128 AGAATTTAAACCACTTCACTGCTGCCAGGAAGTCCCGTTCTCCGCGGTGGTGCAGTAAC 2187  
 QY 2221 CGGACGCTCTGCACTGTGCTCTCTGCGAGGCTTATACGCCCACTACCAAGGAGCTG 2280  
 Db 2188 CGGACGCTCTGCACTGTGCTCTCTGCGAGGCTTATACGCCCACTACCAAGGAGCTG 2247  
 QY 2281 TCTGCAAAATCTGCAATTCGGAGCTCAAGGCGCATGACAGATCTCTCAAGTGCAGACA 2340  
 Db 2248 TCTGCAAAATCTGCAATTCGGAGCTCAAGGCGCATGACAGATCTCTCAAGTGCAGACA 2307  
 QY 2341 TCAATCTGAGAGTGAACGAGAAACCATCACTTTCTTCGCAAGAGGACAGACATTTTC 2400  
 Db 2308 TCAATCTGAGAGTGAACGAGAAACCATCACTTTCTTCGCAAGAGGACAGACATTTTC 2367  
 QY 2401 CTTGCAAGACTGGCCCCAAAGCTTTCAAATTTCCCTACTCTCATGACAGCGGATTTGT 2460  
 Db 2368 CTTGCAAGACTGGCCCCAAAGCTTTCAAATTTCCCTACTCTCATGACAGCGGATTTGT 2427  
 QY 2461 GCTACATTTGATACCCCAATGCAAGGCAAGGACTGGCAGATGTTAGCAGAGAAAC 2520  
 Db 2428 GCTACATTTGATACCCCAATGCAAGGCAAGGACTGGCAGATGTTAGCAGAGAAAC 2487  
 QY 2521 AGCATCAAGAGGAAATTTATCTTATTTTCGCTACAAAGTAGCCCATCTGCTCATTTTG 2580  
 Db 2488 AGCATCAAGAGGAAATTTATCTTATTTTCGCTACAAAGTAGCCCATCTGCTCATTTTG 2547  
 QY 2581 AACCTGTGGGAAGCTCGTCACTGAGTGAATGTTGACTCTCCCTGGGCTGTGCGCTT 2640  
 Db 2548 AACCTGTGGGAAGCTCGTCACTGAGTGAATGTTGACTCTCCCTGGGCTGTGCGCTT 2607  
 QY 2641 GAAGAGATTTGGGAGGACACACAGAAACTCTCAACATTTTCAGAAATCCAGCTTGATGA 2700  
 Db 2608 GAAGAGATTTGGGAGGACACACAGAAACTCTCAACATTTTCAGAAATCCAGCTTGATGA 2667  
 QY 2701 GCGGACTTCAACTACAGAGGCAAAATGGAATCTAG 2736  
 Db 2668 GCGGACTTCAACTACAGAGGCAAAATGGAATCTAG 2703

GENERAL INFORMATION:  
 APPLICANT: Walke, D. Wade  
 APPLICANT: Scoville, John  
 TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides Encodir  
 FILE REFERENCE: LEX-0244-USA  
 CURRENT APPLICATION NUMBER: US/09/969,532  
 CURRENT FILING DATE: 2001-10-02  
 PRIOR APPLICATION NUMBER: US 60/237,280  
 PRIOR FILING DATE: 2000-10-02  
 NUMBER OF SEQ ID NOS: 33  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 13  
 LENGTH: 2694  
 TYPE: DNA  
 ORGANISM: homo sapiens  
 US-09-969-532-13

Query Match 96.6%; Score 2642; DB 4; Length 2694;  
 Best Local Similarity 98.5%; Pred. No. 0;  
 Matches 2694; Conservative 0; Mismatches 0; Indels 42; Gaps 1;

QY	1	ATGGGAGAGCGCGGCCACCGCAGCGCGCGGCGGAGGGCGCGCGCTCCCGTGG	60
DB	1	ATGGGAGAGCGCGGCCACCGCAGCGCGCGGCGGAGGGCGCGCGCTCCCGTGG	60
QY	61	CTGGGCTGTCTTCTGGGCGGCGAGGACCGCGCGCTGCCGAGGAACTGACAAATGCGGAA	120
DB	61	CTGGGCTGTCTTCTGGGCGGCGAGGACCGCGCGCTGCCGAGGAACTGACAAATGCGGAA	120
QY	121	GCCTTTCCGAAATCCATCCCATCAGTCTCTGGGACACTGCTCATTTTCTAGAGAGCCA	180
DB	121	GCCTTTCCGAAATCCATCCCATCAGTCTCTGGGACACTGCTCATTTTCTAGAGAGCCA	180
QY	181	GATGATGCTTAT	240
DB	181	GATGATGCTTAT	240
QY	241	ATGCAGATATTTCTCAAAATGCAACGCGAGTGGTCCATCAGAACGAGCAGCTCTCTGAA	300
DB	241	ATGCAGATATTTCTCAAAATGCAACGCGAGTGGTCCATCAGAACGAGCAGCTCTCTGAA	300
QY	301	GAGACTCTGACGAGAGCTCAGTTTGAAGTTCGGGAGTTCATCATATGTTACTAGG	360
DB	301	GAGACTCTGACGAGAGCTCAGTTTGAAGTTCGGGAGTTCATCATATGTTACTAGG	360
QY	361	CAACAGGTGAGGACTTCCATGGCCCGGAGGACTATTGGTGCCAGTGTGTGGCGTGGAGC	420
DB	361	CAACAGGTGAGGACTTCCATGGCCCGGAGGACTATTGGTGCCAGTGTGTGGCGTGGAGC	420
QY	421	CACCTGGGTACCTCCAAAGAGCAGGAGGCTCTGTGGCATAGCTATTTTACGGAAAAAC	480
DB	421	CACCTGGGTACCTCCAAAGAGCAGGAGGCTCTGTGGCATAGCTATTTTACGGAAAAAC	480
QY	481	TTTGAAACAGACCCACAGGAGGAGTTCCCATGGAAGGATGTTGTTACTGCACTGC	540
DB	481	TTTGAAACAGACCCACAGGAGGAGTTCCCATGGAAGGATGTTGTTACTGCACTGC	540
QY	541	CGCCACACAGGAGGAGTCCCTGTCGCGAGTGGATGGTGGTGAATAATGAAGAGCCCAT	600
DB	541	CGCCACACAGGAGGAGTCCCTGTCGCGAGTGGATGGTGGTGAATAATGAAGAGCCCAT	600
QY	601	GACTCTGAACAGAGCAGAAATTTGACACAGGGCTGACCATTAACCTGATCATCAGGCAG	660
DB	601	GACTCTGAACAGAGCAGAAATTTGACACAGGGCTGACCATTAACCTGATCATCAGGCAG	660
QY	661	GCACGGCTCTGGACTCAGGAAATTTACACCTGATGGAGCCCAATCTGGCTTAAGAGG	720
DB	661	GCACGGCTCTGGACTCAGGAAATTTACACCTGATGGAGCCCAATCTGGCTTAAGAGG	720
QY	721	AGAGACCTGTGCGGCACTGTTGTGCTTACGTGGATGGAGCTGGGAGTGTGGAGCGAA	780
DB	721	AGAGACCTGTGCGGCACTGTTGTGCTTACGTGGATGGAGCTGGGAGTGTGGAGCGAA	780

QY	781	TGGTCCGTCTCCAGTCCAGAGTGTGAACATTTTGGGATTCGGGAGTGACAGACCCACC	840
DB	781	TGGTCCGTCTCCAGTCCAGAGTGTGAACATTTTGGGATTCGGGAGTGACAGACCCACC	840
QY	841	CCGAGAAATGGGCGCAATTTCTGTGAAGTCTTAAGCCAGGAATCTGAAAATCTGCACAGAT	900
DB	841	CCGAGAAATGGGCGCAATTTCTGTGAAGTCTTAAGCCAGGAATCTGAAAATCTGCACAGAT	900
QY	901	GGTCTTTGCATCTTAGATATAAAAAACCTCTTCATGAATAAAAAACCCCAAGCATTTGAGAT	960
DB	901	GGTCTTTGCATCTTAGATATAAAAAACCTCTTCATGAATAAAAAACCCCAAGCATTTGAGAT	960
QY	961	GCCAGCGACATTTCTTTGTATCTCGGGCTTGGGTGCTGCCGTGTCGGCGCTGTCAGTCTCTG	1020
DB	961	GCCAGCGACATTTCTTTGTATCTCGGGCTTGGGTGCTGCCGTGTCGGCGCTGTCAGTCTCTG	1020
QY	1021	GTCAATTTGGTGTACCCCTTTTACAGACGAGCAGAGTGAATGCGGTGGAGCTCAATTCAC	1080
DB	1021	GTCAATTTGGTGTACCCCTTTTACAGACGAGCAGAGTGAATGCGGTGGAGCTCAATTCAC	1080
QY	1081	TCCTTCTGCAATTTGACAGAGTGGCTTCCAGACCTTCAACTTTCAAAACAGTCCGTCAA	1140
DB	1081	TCCTTCTGCAATTTGACAGAGTGGCTTCCAGACCTTCAACTTTCAAAACAGTCCGTCAA	1140
QY	1141	AATATCATGGAACCTAAT	1200
DB	1141	AATATCATGGAACCTAAT	1200
QY	1201	GCCATGACGAGCAGATCTGACAGTGAAGCCGAGCAGATACAGCGGACCCATCTGTCTGAGGAC	1260
DB	1201	GCCATGACGAGCAGATCTGACAGTGAAGCCGAGCAGATACAGCGGACCCATCTGTCTGAGGAC	1260
QY	1261	CCTCTGGCAAGAGGCTCATGACAGTCTCTCACTCTTTAAACCTTTTGTGGACATCAAA	1320
DB	1261	CCTCTGGCAAGAGGCTCATGACAGTCTCTCACTCTTTAAACCTTTTGTGGACATCAAA	1320
QY	1321	GTGAAGTCCAGAGTCTGTCATGCTTCCCTGGGAGTGTCTGAGAGAGTCTGAGTACCAC	1380
DB	1321	GTGAAGTCCAGAGTCTGTCATGCTTCCCTGGGAGTGTCTGAGAGAGTCTGAGTACCAC	1380
QY	1381	GGCAAGAAATCAATCCAGGACTTTTCCCATGGAACCAACCAAGCTTTAGTACAAATGCAT	1440
DB	1381	GGCAAGAAATCAATCCAGGACTTTTCCCATGGAACCAACCAAGCTTTAGTACAAATGCAT	1440
QY	1441	CCGAGAAATAAATGCGCTTACATCAAAATCTGTATCATCTCCCAAGGAGCAGACATG	1500
DB	1441	CCGAGAAATAAATGCGCTTACATCAAAATCTGTATCATCTCCCAAGGAGCAGACATG	1500
QY	1501	AGGACAACTGGTGTCTTTGGCCATTTAGGGGGGGCGCTTAGTAAATGCCAAATACAGGGTG	1560
DB	1501	AGGACAACTGGTGTCTTTGGCCATTTAGGGGGGGCGCTTAGTAAATGCCAAATACAGGGTG	1560
QY	1561	AGCTTACTCATACCAAGAGTGGCTTCCAGAGGAGAAATTTTGGGAGATTTATATGTC	1620
DB	1561	AGCTTACTCATACCAAGAGTGGCTTCCAGAGGAGAAATTTTGGGAGATTTATATGTC	1620
QY	1621	ATCAACCAAGAGTGAACCCAGAGCTCCAGTCAAGTGGCTCTGAGTGTCTGAGTCTGAA	1680
DB	1621	ATCAACCAAGAGTGAACCCAGAGCTCCAGTCAAGTGGCTCTGAGTGTCTGAGTCTGAA	1680
QY	1681	GTCACTGTGGTCTTCCAGACATGATGTCACCATCTCCCTTTTGCATTTGACCATCCCGCAC	1740
DB	1681	GTCACTGTGGTCTTCCAGACATGATGTCACCATCTCCCTTTTGCATTTGACCATCCCGCAC	1740
QY	1741	TGTGAGATGTCTGATTTCTGAGCATTTGGAATATCCATTTTAAAGAGAGGACACAGCAGGGC	1800
DB	1741	TGTGAGATGTCTGATTTCTGAGCATTTGGAATATCCATTTTAAAGAGAGGACACAGCAGGGC	1800
QY	1801	AAATGGAGGAGTGTGATGTCAGTGAAGATGATCTACATCTGTTTACTGCTTTTGGAC	1860
DB	1801	AAATGGAGGAGTGTGATGTCAGTGAAGATGATCTACATCTGTTTACTGCTTTTGGAC	1860
QY	1861	CCCTTTTGGTGTCTATGCTCTCTGGACAGCTTTGGGACCTATGCGCTCACTGAGAGGCCA	1920
DB	1861	CCCTTTTGGTGTCTATGCTCTCTGGACAGCTTTGGGACCTATGCGCTCACTGAGAGGCCA	1920



Db 901 |||||GGTCTTGGCATCTAG-----GCATTGGAAT 927  
Qy 961 GCCAGCGACATTCCTTTTACTCGCGTTGGGTGCTGCGGTGCTGGCCGCTTGCAGTCTCTG 1020  
Db 928 GCCAGCGACATTCCTTTTACTCGCGTTGGGTGCTGCGGTGCTGGCCGCTTGCAGTCTCTG 987  
Qy 1021 GTCATTGGTGTACCCCTTTACAGACGAGCCAGAGTGACTATGGCGTGTGAGCTCATTTGAC 1080  
Db 988 GTCATTGGTGTACCCCTTTACAGACGAGCCAGAGTGACTATGGCGTGTGAGCTCATTTGAC 1047  
Qy 1081 TCTTCTGCATTCAGAGTGGCTTCCAGACTTCAACTTCAAAACAGTCCGTCAAGCCAAG 1140  
Db 1048 TCTTCTGCATTCAGAGTGGCTTCCAGACTTCAACTTCAAAACAGTCCGTCA----- 1101  
Qy 1141 AATATCATGGAACCTAATGATACAGAAATACTTTGGTAACTCCCTGCTCTCTGAAATCT 1200  
Db 1102 -----GGTAACTCCCTGCTCTGAAATCT 1125  
Qy 1201 GCCATGAGCGAGATTCGACAGTGAGCCGAGACATACAGCGGACCCATCTCTCTGCAAGAC 1260  
Db 1126 GCCATGAGCGAGATTCGACAGTGAGCCGAGACATACAGCGGACCCATCTCTCTGCAAGAC 1185  
Qy 1261 CCTCTGACAGAGAGCTCATGACAGTCTCTACTCTTTAACTTTGTCGACATCAAA 1320  
Db 1186 CCTCTGACAGAGAGCTCATGACAGTCTCTACTCTTTAACTTTGTCGACATCAAA 1245  
Qy 1321 GTGAAAGTCCAGAGCTCGTTTATGTTTCCCTGGAGTGTCTGAGAGAGTGTAGTACCAC 1380  
Db 1246 GTGAAAGTCCAGAGCTCGTTTATGTTTCCCTGGAGTGTCTGAGAGAGTGTAGTACCAC 1305  
Qy 1381 GCGAAGATTCATTCAGAGCTTTTCCCATGGAACCAACACAGCTTTAGTCAATGCAT 1440  
Db 1306 GCGAAGATTCATTCAGAGCTTTTCCCATGGAACCAACACAGCTTTAGTCAATGCAT 1365  
Qy 1441 CCCAGAATAAATGCCCTACATCCAAATCTGTCTCATCTCCCTCCCAAGAGCAGAACTG 1500  
Db 1366 CCCAGAATAAATGCCCTACATCCAAATCTGTCTCATCTCCCTCCCAAGAGCAGAACTG 1425  
Qy 1501 AGGACAACTGGTGTCTTTGGCCATTTAGGGGGGGCTTAGTAATGCCAAATACAGGGTG 1560  
Db 1426 AGGACAACTGGTGTCTTTGGCCATTTAGGGGGGGCTTAGTAATGCCAAATACAGGGTG 1485  
Qy 1561 AGCTTACTCATACACAGTGGCCATCCAGAGAGAGATTTCTGGGAGATTTATATGTC 1620  
Db 1486 AGCTTACTCATACACAGTGGCCATCCAGAGAGAGATTTCTGGGAGATTTATATGTC 1545  
Qy 1621 ATCAACCAAGTGAACCCAGCTCCAGTCCAGATGGCTCTGAGGTGCTCTGAGTCTGTAA 1680  
Db 1546 ATCAACCAAGTGAACCCAGCTCCAGTCCAGATGGCTCTGAGGTGCTCTGAGTCTGTAA 1605  
Qy 1681 GTCACCTGGTCTCCAGACATGATCGTCAACCTCCCTTTGCTATGACCATCCCGCAC 1740  
Db 1606 GTCACCTGGTCTCCAGACATGATCGTCAACCTCCCTTTGCTATGACCATCCCGCAC 1665  
Qy 1741 TGTGAGATGTCAGTTCCTGAGCATTTGGAATATCCATTTAAAGAGAGGACACACAGGGC 1800  
Db 1666 TGTGAGATGTCAGTTCCTGAGCATTTGGAATATCCATTTAAAGAGAGGACACACAGGGC 1725  
Qy 1801 AAATGGGAGGAGTGTATGTCAGTGAAGATGAATCTACATCTGTTTACTGCTTTTGGAC 1860  
Db 1726 AAATGGGAGGAGTGTATGTCAGTGAAGATGAATCTACATCTGTTTACTGCTTTTGGAC 1785  
Qy 1861 CCCTTTGGTGTATGTCCTCTGACAGCTTTGGACCTATGCGCTCAGTGGAGAGCCA 1920  
Db 1786 CCCTTTGGTGTATGTCCTCTGACAGCTTTGGACCTATGCGCTCAGTGGAGAGCCA 1845  
Qy 1921 ATCAGAGCTGTGCGGTGAAGCACTGAAGTGGCGGTTTTTGGCTGATGCTCTGTAAAC 1980  
Db 1846 ATCAGAGCTGTGCGGTGAAGCACTGAAGTGGCGGTTTTTGGCTGATGCTCTGTAAAC 1905  
Qy 1981 TCCCTGGATTCAACTTGAGAGTTTACTGTGGGACATACCCCTTGTGCAATTCAGGAA 2040

Db 1906 TCCCTGGATTCAACTTGAGAGTTTACTGTGTGCAATAACCCCTTGTGCAATTCAGGAA 1965  
Qy 2041 GTGGTTTCAGATGAAGGCAATCAAGTGGAGCTCTCTGGAAGAACCAAAATTCCTGTCAT 2100  
Db 1966 GTGGTTTCAGATGAAGGCAATCAAGTGGAGCTCTCTGGAAGAACCAAAATTCCTGTCAT 2025  
Qy 2101 TTCAAAGGGAATACCTTTTAGTCTTTCAGATTTCTGCTCTTGTATTTCCCCCATTCCTCTGG 2160  
Db 2026 TTCAAAGGGAATACCTTTTAGTCTTTCAGATTTCTGCTCTTGTATTTCCCCCATTCCTCTGG 2085  
Qy 2161 AGAATTAACCATTCACCTGCTGCGAGAAAGTCCCGTCTCCCGGTGTGTGAGTAAC 2220  
Db 2086 AGAATTAACCATTCACCTGCTGCGAGAAAGTCCCGTCTCCCGGTGTGTGAGTAAC 2145  
Qy 2221 CGGAGCCCTGCTGCTGCTCTCTCCCTGGAGGCTTATAGCCCACTTACCACCCAGCTG 2280  
Db 2146 CGGAGCCCTGCTGCTGCTCTCTCCCTGGAGGCTTATAGCCCACTTACCACCCAGCTG 2205  
Qy 2281 TCCTGCAAAATCTGCATTCGGCAGCTCAAAGGCCATGAACAGATCTCTCAAAGTGCAGACA 2340  
Db 2206 TCCTGCAAAATCTGCATTCGGCAGCTCAAAGGCCATGAACAGATCTCTCAAAGTGCAGACA 2265  
Qy 2341 TCAATCTTAGAGAGTGAACGAGAAACCATCTCTTCTCGCACAGAGGACAGCACTTTC 2400  
Db 2266 TCAATCTTAGAGAGTGAACGAGAAACCATCTCTTCTCGCACAGAGGACAGCACTTTC 2325  
Qy 2401 CCGTGCACAGACTGGCCCAAAAGCCCTTCAAAATTCCTACTCTCATCAGACAGCGATTGT 2460  
Db 2326 CCGTGCACAGACTGGCCCAAAAGCCCTTCAAAATTCCTACTCTCATCAGACAGCGATTGT 2385  
Qy 2461 GCTACATTTGATACCCCAATGCCAAAGGCAAGCTGCGCAGATGTTAGCAGACAGAAAC 2520  
Db 2386 GCTACATTTGATACCCCAATGCCAAAGGCAAGCTGCGCAGATGTTAGCAGACAGAAAC 2445  
Qy 2521 AGCATCAACAGAAATTTATCTTATTTCTGCTACACAAAGTAGCCCATCTGCTGTCAATTTG 2580  
Db 2446 AGCATCAACAGAAATTTATCTTATTTCTGCTACACAAAGTAGCCCATCTGCTGTCAATTTG 2505  
Qy 2581 AACCTGTGGAAAGCTCGTCTCATCAGCATGATGCTGTGATCTCTGCTGCTGCTGCTT 2640  
Db 2506 AACCTGTGGAAAGCTCGTCTCATCAGCATGATGCTGTGATCTCTGCTGCTGCTGCTT 2565  
Qy 2641 GAAGAGATTGGAGGACACACAGAAACTCTCAAACTTTCAAGATTTCCAGCTTCAATGAA 2700  
Db 2566 GAAGAGATTGGAGGACACACAGAAACTCTCAAACTTTCAAGATTTCCAGCTTCAATGAA 2625  
Qy 2701 GCGGCTTCAACTTACAGCAGGCAAAATGGACTCTAG 2736  
Db 2626 GCGGCTTCAACTTACAGCAGGCAAAATGGACTCTAG 2661

RESULT 6  
US-09-969-532-25  
; Sequence 25, Application US/09969532  
; Patent No. 6777232  
; GENERAL INFORMATION:  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Scoville, John  
; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides Encodi  
; FILE REFERENCE: LEX-0244-USA  
; CURRENT APPLICATION NUMBER: US/09/969,532  
; CURRENT FILING DATE: 2001-10-02  
; PRIOR APPLICATION NUMBER: US 60/237,280  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: Fast-SEQ for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 2043  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-09-969-532-25

Query Match 74.7%; Score 2043; DB 4; Length 2043;







Qy	2554	CAAAAGTAGCCCATCTGCTGTCAATTTGAAACCTGTGGGAAGCTCGTCATCAGCATGATGGT	2613
Db	1828	CAAAAGTAGCCCATCTGCTGTCAATTTGAAACCTGTGGGAAGCTCGTCATCAGCATGATGGT	1887
Qy	2614	GATCTTGACTCCCTGGGCTGTGCCCCTTGAAGAGATTGGGAGGACACACAGAAACTCTCA	2673
Db	1888	GATCTTGACTCCCTGGGCTGTGCCCCTTGAAGAGATTGGGAGGACACACAGAAACTCTCA	1947
Qy	2674	AACATTTTCAGAAATCCCAGCTTTGATGAAGCCGACTTCAACTACAGCAGCGCAAAATGGGACTC	2733
Db	1948	AACATTTTCAGAAATCCCAGCTTTGATGAAGCCGACTTCAACTACAGCAGCGCAAAATGGGACTC	2007
Qy	2734	TAG 2736	
Db	2008	TAG 2010	

## RESULT 8

```

RESULTS 8
US-09-969-532-29
; Sequence 29, Application US/09969532
; Patent No. 6777232
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: 6777232zel Human Membrane Proteins and Polynucleotides Encoding
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/09/969,532
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 2001
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-969-532-29

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Query Match	71.2%	Score 1949;	DB 4;	Length 2001;
Best Local Similarity	97.9%	Pred. No. 0;		
Matches 2001; Conservative	0;	Mismatches	0;	Indels 42; Gaps 1;

694	ATGCGACCCAAACATCGTGGCTTAAGAGGAGAACCTGTGCGCCACTGTTGTGGTCTACGTG	753	
Db	1	ATGCGACCCAAACATCGTGGCTTAAGAGGAGAACCTGTGCGCCACTGTTGTGGTCTACGTG	60
Qy	754	GATGGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGAACATTTC	813
Db	61	GATGGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGAACATTTC	120
Qy	814	CGGATCCGGAGTGCACAGACACACCCCGAGAAATGGGGGCAAAATCTGTGAAGGTCCTA	873
Db	121	CGGATCCGGAGTGCACAGACACACCCCGAGAAATGGGGGCAAAATCTGTGAAGGTCCTA	180
Qy	874	AGCCAGGAATCTGAAAACTGCACAGATGGTCTTTTGCACTCTAGATAAAAAACCTCTTCAT	933
Db	181	AGCCAGGAATCTGAAAACTGCACAGATGGTCTTTTGCACTCTAGATAAAAAACCTCTTCAT	240
Qy	934	GAATAAAACCCAAAGCATTTGAGAAATGCACGCGACATTTGTTTGTACTCGGGCTTGGGT	993
Db	241	GAATAAAACCCAAAGCATTTGAGAAATGCACGCGACATTTGTTTGTACTCGGGCTTGGGT	300
Qy	994	GCTGCGCGTCTGGCCGTTGCGAGTCCCTGGTCATTTGGTGTCACTCCCTTTACAGACGGAGCCAG	1053
Db	301	GCTGCGCGTCTGGCCGTTGCGAGTCCCTGGTCATTTGGTGTCACTCCCTTTACAGACGGAGCCAG	360
Qy	1054	AGTGACTATGGCGTGGACGCTCATTGACTCTTCTGCAATTTGACAGGTGGCTTCCAGACCTTC	1113
Db	361	AGTGACTATGGCGTGGACGCTCATTGACTCTTCTGCAATTTGACAGGTGGCTTCCAGACCTTC	420
Qy	1114	AACTTCAAAAACAGTCCGTCCAGGCCAAGAATATCATGGAACTTAATGATACAGAAAAAATCC	1173

Db	421	AAC	TTCAAAAACAGTCCGTCAA-----	441		
Qy	1174	TTT	GGTAACCTCCCTGCTCCTGAATTCGCCATG	CAGCAGATCTGACAGTGAGCCGGA	1233	
Db	442	---	GGTAACCTCCCTGCTCCTGAATTCGCCATG	CAGCAGATCTGACAGTGAGCCGGA	498	
Qy	1234	TAC	AGCGGAGCCCATCTCTCTGTG	CAGGACCCCTCTGGACAAGGAGTCTATGA	CAGAGTCTCTCA	1293
Db	499	TAC	AGCGGAGCCCATCTCTCTGTG	CAGGACCCCTCTGGACAAGGAGTCTATGA	CAGAGTCTCTCA	558
Qy	1294	CTCTTT	AACCCCTTTGTTCGGGACATCA	AAGTGNAAAGTCCAGAGCTCGTTCT	ATGTTTCCCTG	1353
Db	559	CTCTTT	AACCCCTTTGTTCGGGACATCA	AAGTGNAAAGTCCAGAGCTCGTTCT	ATGTTTCCCTG	618
Qy	1354	GGAGT	GTCTGAGAGAGCTGAGTAC	CACGGCAAGAATCATTTCCAGGACTTTT	CCCCCATGGA	1413
Db	619	GGAGT	GTCTGAGAGAGCTGAGTAC	CACGGCAAGAATCATTTCCAGGACTTTT	CCCCCATGGA	678
Qy	1414	AACA	CCACACAGCTTTTAGTACA	ATGCAATCCAGGCAAGNATCATTTCCAGGACTTTT	CCCCCATGGA	1473
Db	679	AACA	CCACACAGCTTTTAGTACA	ATGCAATCCAGGCAAGNATCATTTCCAGGACTTTT	CCCCCATGGA	738
Qy	1474	TCAT	CACTCCCCACAAGGACAG	AACTGAGACAACTGGTCTCTTTGGCCATTTAG	GGGGG	1533
Db	739	TCAT	CACTCCCCACAAGGACAG	AACTGAGACAACTGGTCTCTTTGGCCATTTAG	GGGGG	798
Qy	1534	CGCT	TTAGTAATGCCAAATAC	AGGGTGAGCTTTACTCATACACA	CGGTGCCATCCAGAG	1593
Db	799	CGCT	TTAGTAATGCCAAATAC	AGGGTGAGCTTTACTCATACACA	CGGTGCCATCCAGAG	858
Qy	1594	GAGA	ATTTCTTTGGGAGATTTAT	ATGTCCATCAACCAAGGTGA	ACCCAGCTCCAGTCA	1653
Db	859	GAGA	ATTTCTTTGGGAGATTTAT	ATGTCCATCAACCAAGGTGA	ACCCAGCTCCAGTCA	918
Qy	1654	GGCT	CTGAGTGCTCTGAGTCT	GGAAGTCACTGTGGTCTCTCAGACA	CATGATCGTCACC	1713
Db	919	GGCT	CTGAGTGCTCTGAGTCT	GGAAGTCACTGTGGTCTCTCAGACA	CATGATCGTCACC	978
Qy	1714	ACTC	CCCTTTGCATTTGACCAT	CCGCACTGTGCAGATGT	CAGTTCTGAGCAATTGA	1773
Db	979	ACTC	CCCTTTGCATTTGACCAT	CCGCACTGTGCAGATGT	CAGTTCTGAGCAATTGA	1038
Qy	1774	CAT	TTAAAGAGGACACACAG	CGGGCAATGGGAGGAAGTGA	TGTCAGTGGAGATGA	1833
Db	1039	CAT	TTAAAGAGGACACACAG	CGGGCAATGGGAGGAAGTGA	TGTCAGTGGAGATGA	1098
Qy	1834	TCTA	CACTCTGTACTGCTCTTT	TGGACCCCTTTGCGTGTCAT	GTGCTCTCGGACAGCTTT	1893
Db	1099	TCTA	CACTCTGTACTGCTCTTT	TGGACCCCTTTGCGTGTCAT	GTGCTCTCGGACAGCTTT	1158
Qy	1894	GGGA	CTTATCGCTCTAC	TGGAGAGCCAAATCACAGACTGT	CCGTGAAGCAACTGA	1953
Db	1159	GGGA	CTTATCGCTCTAC	TGGAGAGCCAAATCACAGACTGT	CCGTGAAGCAACTGA	1218
Qy	1954	GCGG	TTTTTGGCTG	CATGTCCTGTAATCAACTTTGAGATTT	TACTGTGTG	2013
Db	1219	GCGG	TTTTTGGCTG	CATGTCCTGTAATCAACTTTGAGATTT	TACTGTGTG	1278
Qy	2014	GACA	ATACCCCTGTGTG	ATTTTCAAGGAAGTGGTTTCAGATGA	AAAGGCATCAAGGTG	2073
Db	1279	GACA	ATACCCCTGTGTG	ATTTTCAAGGAAGTGGTTTCAGATGA	AAAGGCATCAAGGTG	1338
Qy	2074	CTCT	GTGAAGAACCAAAAT	TGCTGCATTTTCAAAAGGGAATAC	CTTTAGCTTTCAGATTTCT	2133
Db	1339	CTCT	GTGAAGAACCAAAAT	TGCTGCATTTTCAAAAGGGAATAC	CTTTAGCTTTCAGATTTCT	1398
Qy	2134	GTC	CTTGATATTC	CCCCCATTTCTCTGGAGAAATTA	AACCATTTCACTGCTCC	2193
Db	1399	GTC	CTTGATATTC	CCCCCATTTCTCTGGAGAAATTA	AACCATTTCACTGCTCC	1458
Qy	2194	CCGT	CTCCCGGTGTGGTGAG	TAAACCGGAGCCCTCTGCACTGTG	CTCTTCCCTCGAG	2253
Db	1459	CCGT	CTCTCCCGGTGTGGTGAG	TAAACCGGAGCCCTCTGCACTGTG	CTCTTCCCTCGAG	1518





QY	1954	GCGGTTTTTTCGGCTGCATGTCTCTGTAAACTCCTCGAATTACAACCTTGAGAGTTTACTGTGTG	2013
DB	1186		
QY	2014	GACAATAACCCCTTGTGTCAITTTCAGGAAGTGGTTTTCAGATGAAAAGCATCAAGGTGGACAG	2073
DB	1246		
QY	2074	CTCCTGGAAGAACCAAAATTTGCTGCAITTTCAAAGGGAATACCTTTAGTCTTTCAGATTTCCT	2133
DB	1306	CTCTGGAAGAACC AAAATTTGCTGCAITTTCAAAGGGAATACCTTTAGTCTTTCAGATTTCCT	1365
QY	2134	GTCTTTCATATTTCCCCCATTTCTCTGGAGAAATTA AACCATTTCACTGCTCTGCAGGAAGTC	2193
DB	1366	GTCTTTCATATTTCCCCCATTTCTCTGGAGAAATTA AACCATTTCACTGCTCTGCAGGAAGTC	1425
QY	2194	CGTTTCTCCGCGTGTGTGAGTAAACCGGAGGCCCTTGCACTGTGTGCTTCTCCCTGGAG	2253
DB	1426	CGGTTCTCCGCGTGTGTGAGTAAACCGGAGGCCCTTGCACTGTGTGCTTCTCCCTGGAG	1485
QY	2254	CGTTATACGCCCACTACACCCAGCTGTCTGTGCAAAATCTTGCAATTCGGCAGCTCAAAAGGC	2313
DB	1486	CGTTATACGCCCACTACACCCAGCTGTCTGTGCAAAATCTTGCAATTCGGCAGCTCAAAAGGC	1545
QY	2314	CATGAAACAGATCTCCAAGTGCAGACATCAATCTTAGAGAGTGAAACGAGAAACCATCACT	2373
DB	1546	CATGAAACAGATCTCCAAGTGCAGACATCAATCTTAGAGAGTGAAACGAGAAACCATCACT	1605
QY	2374	TTCCTTGCCACAGNAGGACAGCACTTTCCCTGCGCACAGACTGGCCCCCAAGGCTTCAAAATT	2433
DB	1606	TTCCTTGCCACAGNAGGACAGCACTTTCCCTGCGCACAGACTGGCCCCCAAGGCTTCAAAATT	1665
QY	2434	CCCTACTCCATCAGACAGCGGAATTTGTGCTACATTTTGATATACCCCCTCAAGCGCAAG	2493
DB	1666	CCCTACTCCATCAGACAGCGGAATTTGTGCTACATTTTGATATACCCCCTCAAGCGCAAG	1725
QY	2494	GACTGGCAGATGTTAGCACAGAAAAACAGATCAACAGGAATTTATCTTATTTTCGCTACA	2553
DB	1726	GACTGGCAGATGTTAGCACAGAAAAACAGATCAACAGGAATTTATCTTATTTTCGCTACA	1785
QY	2554	CAAAAGTAGCCCATCTGCTGTCTATTTTCAAACTGTGGGAAGCTGCTCATCAGCATGATGGT	2613
DB	1786	CAAAAGTAGCCCATCTGCTGTCTATTTTGAACCTGTGGGAAGCTGCTCATCAGCATGATGGT	1845
QY	2614	GATCTTGACTCCCTGGCCCTGTGGCCCTTGAAGAGATGGGAGGACACACAGAAACTCTCA	2673
DB	1846	GATCTTGACTCCCTGGCCCTGTGGCCCTTGAAGAGATGGGAGGACACACAGAAACTCTCA	1905
QY	2674	AACATTTTCAGAAATCCCAAGCTTGATGAAGCCGACTTCAACTACACGCGGCAAAATGGACTC	2733
DB	1906	AACATTTTCAGAAATCCCAAGCTTGATGAAGCCGACTTCAACTACACGCGGCAAAATGGACTC	1965
QY	2734	TAG 2736	
DB	1966		
DB		TAG 1968	

RESULT 10  
US-09-969-532-1  
; Sequence 1, Application US/09969532  
; Patent No. 6777232  
; GENERAL INFORMATION:  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Scoville, John  
; TITLE OF INVENTION: No. 6777232zel Human Membrane Proteins and Polynucleotides Encoding  
; FILE REFERENCE: LEX-0244-USA  
; CURRENT APPLICATION NUMBER: US/09/969,532  
; CURRENT FILING DATE: 2001-10-02  
; PRIOR APPLICATION NUMBER: US 60/237,280  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSEQ for Windows Version 4.0

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; SEQ ID NO 1
; LENGTH: 1734
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-969-532-1

Query Match      59.9%; Score 1640; DB 4; Length 1734;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1640; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGGGAGAGCGGCGGCACGCGAGGCGGCGGAGGGCGCGCGCTGGCTCCCGTGG 60
DB 1 ATGGGGAGAGCGGCGGCACGCGAGGCGGCGGAGGGCGCGCGCTGGCTCCCGTGG 60

QY 61 CTGGGGCTGTGCTTTCTGGGGCGCAGGACCGCGGCTGCCGAGAGAACTGACAATGGCGAA 120
DB 61 CTGGGGCTGTGCTTTCTGGGGCGCAGGACCGCGGCTGCCGAGAGAACTGACAATGGCGAA 120

QY 121 GCCCTTCCGAATCCATCCATCAGCTCCTGGGACACTGCCTCATTTTCATAGAGGAGCCA 180
DB 121 GCCCTTCCGAATCCATCCATCAGCTCCTGGGACACTGCCTCATTTTCATAGAGGAGCCA 180

QY 181 GATGATCCTTATATTATCAAGAGCAACCCATTATTGCACTCAGGTGCGAAAGCGAGCCAGCC 240
DB 181 GATGATCCTTATATTATCAAGAGCAACCCATTATTGCACTCAGGTGCGAAAGCGAGCCAGCC 240

QY 241 ATGCAGATATTTCTTCAAATGCAACGGCGAGTGGGTCCATCAGAAACGAGCAGCTCTCTGAA 300
DB 241 ATGCAGATATTTCTTCAAATGCAACGGCGAGTGGGTCCATCAGAAACGAGCAGCTCTCTGAA 300

QY 301 GAGACTCTGACGAGAGCTCAGGTTTGAAAGTCCGCGAAGTGTTCATCAATGTTCATGAG 360
DB 301 GAGACTCTGACGAGAGCTCAGGTTTGAAAGTCCGCGAAGTGTTCATCAATGTTCATGAG 360

QY 361 CAACAGGTGAGAGCTTCCATGCGCCGAGGACTATTGGTCCAGTGTGTGGCGTGGAGC 420
DB 361 CAACAGGTGAGAGCTTCCATGCGCCGAGGACTATTGGTCCAGTGTGTGGCGTGGAGC 420

QY 421 CACTGTGGTACTTCCAAGACGAGAAAGCCCTCTGTGCGCATAGCCTATTTACCGAAAAAC 480
DB 421 CACTGTGGTACTTCCAAGACGAGAAAGCCCTCTGTGCGCATAGCCTATTTACCGAAAAAC 480

QY 481 TTTGAAACAAGACCCACAAGGAAGGAGTTCCCATTTGAAGGCATGATTTGTCACCTGC 540
DB 481 TTTGAAACAAGACCCACAAGGAAGGAGTTCCCATTTGAAGGCATGATTTGTCACCTGC 540

QY 541 CGGCCACGAGGGAGTCCCTGCTGCGGAGTGGAAATGCTGTAATAATGAGAGCCCATTT 600
DB 541 CGGCCACGAGGGAGTCCCTGCTGCGGAGTGGAAATGCTGTAATAATGAGAGCCCATTT 600

QY 601 GACTCTGAAACAAGACGAGAACTTTGACACGAGGGCTGACCATAACTGTATCATCAGGCAG 660
DB 601 GACTCTGAAACAAGACGAGAACTTTGACACGAGGGCTGACCATAACTGTATCATCAGGCAG 660

QY 661 GCACGGCTCTCGGACTCAGGAAATTAACCTGCATGGCAGCCAACTCGTGGCTAAAGAGG 720
DB 661 GCACGGCTCTCGGACTCAGGAAATTAACCTGCATGGCAGCCAACTCGTGGCTAAAGAGG 720

QY 721 AGAAGCCTGTGGCCACTGTTTGGTCTAGCTGATGGGAGCTGGGAAGTGTGGAGCGGAA 780
DB 721 AGAAGCCTGTGGCCACTGTTTGGTCTAGCTGATGGGAGCTGGGAAGTGTGGAGCGGAA 780

QY 781 TGGTCCGTCTGCAGTCCAGAGTGTGAACATTTTCGGATCCGGAGTGCACAGCACCAACC 840
DB 781 TGGTCCGTCTGCAGTCCAGAGTGTGAACATTTTCGGATCCGGAGTGCACAGCACCAACC 840

QY 841 CCGAGAAATGGGGCGCAAAATTTCTGTGAAGGTCTTAAGCCAGGAATCTGAAAACTGCACAGAT 900
DB 841 CCGAGAAATGGGGCGCAAAATTTCTGTGAAGGTCTTAAGCCAGGAATCTGAAAACTGCACAGAT 900

QY 901 GGTCTTTGCATCTTAGATAAAAAACCTCTTTTCATGAAATAAAAAACCCAAAGCATTTGAGAA 960
DB 901 GGTCTTTGCATCTTAGATAAAAAACCTCTTTTCATGAAATAAAAAACCCAAAGCATTTGAGAA 960

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QY	961	GCACGCGAATGCTTTGTAATCGGGCTTGGTGTCTGCGCGTGGCGGCTTGCAGTCTG	1020
DB	961	GCACGCGAATGCTTTGTAATCGGGCTTGGTGTCTGCGCGTGGCGGCTTGCAGTCTG	1020
QY	1021	GTCAATGGTGTCAACCTTTACAGAGCGGAGCGAGTGACTATGGCGTGACGCTCAATTGAC	1080
DB	1021	GTCAATGGTGTCAACCTTTACAGAGCGGAGCGAGTGACTATGGCGTGACGCTCAATTGAC	1080
QY	1081	TCTTTGCAATGACAGGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGCCAAG	1140
DB	1081	TCTTTGCAATGACAGGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGCCAAG	1140
QY	1141	AATATCATGGAATTAATGATACAGAAATCTCTTGGTAACTCCCTGCTCTGTAATCT	1200
DB	1141	AATATCATGGAATTAATGATACAGAAATCTCTTGGTAACTCCCTGCTCTGTAATCT	1200
QY	1201	GCCATGCGGCGAGCTTGACAGTGAGCGGAGCATACAGCGGACCCCATCTGTCTGCAGGAC	1260
DB	1201	GCCATGCGGCGAGCTTGACAGTGAGCGGAGCATACAGCGGACCCCATCTGTCTGCAGGAC	1260
QY	1261	CCTCTGACAAAGAGCTCATGACAGAGTCTCACTCTTTAAACCTTTTGTGCGACATCAA	1320
DB	1261	CCTCTGACAAAGAGCTCATGACAGAGTCTCACTCTTTAAACCTTTTGTGCGACATCAA	1320
QY	1321	GTGAAGTCCAGAGCTGTTTCATGTTTCCCTGGGAGTGTCTGAGAGCTGAGTACCAC	1380
DB	1321	GTGAAGTCCAGAGCTGTTTCATGTTTCCCTGGGAGTGTCTGAGAGCTGAGTACCAC	1380
QY	1381	GGCAAGATCATTTCCAGGACTTTTCCCATGGAAACCAACACAGCTTTTGTAGTCAATGCAT	1440
DB	1381	GGCAAGATCATTTCCAGGACTTTTCCCATGGAAACCAACACAGCTTTTGTAGTCAATGCAT	1440
QY	1441	CCGAGAAATAAATGCTTATCCCAATCTGTCTATCATCTCCCAAGGACAGAACTG	1500
DB	1441	CCGAGAAATAAATGCTTATCCCAATCTGTCTATCATCTCCCAAGGACAGAACTG	1500
QY	1501	AGGCAACTGGTGTCTTTGGCCATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGGTG	1560
DB	1501	AGGCAACTGGTGTCTTTGGCCATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGGTG	1560
QY	1561	AGCTTACTATACACACAGGTGCTCCATCCAGAGGAGAAATCTTGGGAGATTTATATGTC	1620
DB	1561	AGCTTACTATACACACAGGTGCTCCATCCAGAGGAGAAATCTTGGGAGATTTATATGTC	1620
QY	1621	ATCAACCAAGTGAACCCAG 1640	
DB	1621	ATCAACCAAGTGAACCCAG 1640	

RESULT 11  
 US-09-969-532-3  
 ; Sequence 3, Application US/09969532  
 ; Patent No. 677232  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walke, D. Wade  
 ; APPLICANT: Scoville, John  
 ; TITLE OF INVENTION: No. 677232el Human Membrane Proteins and Polynucleotides Encodin  
 ; FILE REFERENCE: LEX-0244-USA  
 ; CURRENT APPLICATION NUMBER: US/09/969,532  
 ; CURRENT FILING DATE: 2001-10-02  
 ; PRIOR APPLICATION NUMBER: US 60/237,280  
 ; PRIOR FILING DATE: 2000-10-02  
 ; NUMBER OF SEQ ID NOS: 33  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 3  
 ; LENGTH: 1701  
 ; TYPE: DNA  
 ; ORGANISM: homo sapiens  
 US-09-969-532-3

Query Match 57.2%; Score 1564; DB 4; Length 1701;  
 Best Local Similarity 98.0%; Pred. No. 0;

QY	1	ATGGGGAGAGCGGCGCCACCGAGGGCGGCGAGGGCGCGCGCTGCTCCCGTGG	60
DB	1	ATGGGGAGAGCGGCGGCGCCACCGAGGGCGGCGAGGGCGCGCGCTGCTCCCGTGG	60
QY	61	CTGGGGCTGTCTTCTTGGGCGGCGAGGACCGCGGCTGCGCGAGGAATGACAATGGCGAA	120
DB	61	CTGGGGCTGTCTTCTTGGGCGGCGAGGACCGCGGCTGCGCGAGGAATGACAATGGCGAA	120
QY	121	GCCCTTCCGGAATCCATCCCATCAGCTCTGGGACACTGCTCTCATTTTATAGAGAGCCA	180
DB	121	GCCCTTCCGGAATCCATCCCATCAGCTCTGGGACACTGCTCTCATTTTATAGAGAGCCA	180
QY	181	GATGATGCTTATATATCAAGAGCAACCTTATGCACTCAGGTGCAAGCGAGGCCAGCC	240
DB	181	GATGATGCTTATATATCAAGAGCAACCTTATGCACTCAGGTGCAAGCGAGGCCAGCC	240
QY	241	ATGCAGATATTTCTTCAAAATGCAACGGCGAGTGGGTCCATCAGAAACGACGCTCTCTGAA	300
DB	241	ATGCAGATATTTCTTCAAAATGCAACGGCGAGTGGGTCCATCAGAAACGACGCTCTCTGAA	300
QY	301	GAGACTCTGGAGAGAGCTCAGGTTTGAAGTTCGCGAGTGTTCATCAATGTTTACTAGG	360
DB	301	GAGACTCTGGAGAGAGCTCAGGTTTGAAGTTCGCGAGTGTTCATCAATGTTTACTAGG	360
QY	361	CAACAGGTGGAGGACTTCCATGGGCGGAGGACTTATGTTGTCAGTGTGGCGTGGAGC	420
DB	361	CAACAGGTGGAGGACTTCCATGGGCGGAGGACTTATGTTGTCAGTGTGGCGTGGAGC	420
QY	421	CACCTGGGTACTCTCAAGAGGAGGAGGCTCTGTGCGCATAGCCCTATTTACGGAATAAC	480
DB	421	CACCTGGGTACTCTCAAGAGGAGGAGGCTCTGTGCGCATAGCCCTATTTACGGAATAAC	480
QY	481	TTTGAAACAGGACCCACAGAGGAGGAGGCTTCCATTTGAAGGCTATGTTACTGCACTGC	540
DB	481	TTTGAAACAGGACCCACAGAGGAGGAGGCTTCCATTTGAAGGCTATGTTACTGCACTGC	540
QY	541	CGCCCAACAGAGGGAGTCCCTGCTGCGAGGTGGAAATGCTGAAATAAGAGGCCATT	600
DB	541	CGCCCAACAGAGGGAGTCCCTGCTGCGAGGTGGAAATGCTGAAATAAGAGGCCATT	600
QY	601	GACTCTGAAACAGAGAGGAACTTACACACAGGCTGACCAATACCTGATCATCAGGACG	660
DB	601	GACTCTGAAACAGAGAGGAACTTACACACAGGCTGACCAATACCTGATCATCAGGACG	660
QY	661	GCAAGGCTCTCGGACTCAGGAAATTTACCTGATGCGAGGAGGCAATCGTGGCTAAGAGG	720
DB	661	GCAAGGCTCTCGGACTCAGGAAATTTACCTGATGCGAGGAGGCAATCGTGGCTAAGAGG	720
QY	721	AGAAGGCTCTCGGCGCACTGTTGTTGTTACGTTGATGGAGCTGGGAAAGTGTGGAGCGAA	780
DB	721	AGAAGGCTCTCGGCGCACTGTTGTTGTTACGTTGATGGAGCTGGGAAAGTGTGGAGCGAA	780
QY	781	TGTTCCGCTCTGAGTCCAGAGTGTGACATTTTGGGATCCGGAGTGGAGAGTGGAGCGAAC	840
DB	781	TGTTCCGCTCTGAGTCCAGAGTGTGACATTTTGGGATCCGGAGTGGAGAGTGGAGCGAAC	840
QY	841	CCGAGAAATGGGGGCAAAATTTCTGTAAGGTCTTAAGCCAGGAAATCTGAAATCTGACAGAT	900
DB	841	CCGAGAAATGGGGGCAAAATTTCTGTAAGGTCTTAAGCCAGGAAATCTGAAATCTGACAGAT	900
QY	901	GGTCTTTGCACTCTAGATAAAAAAACCCTCTTTCATGAAATAAAACCCCAAGCATTGGAAT	960
DB	901	GGTCTTTGCACTCTAGATAAAAAAACCCTCTTTCATGAAATAAAACCCCAAGCATTGGAAT	960
QY	961	GCCAGCGCAATTTGCTTTTGTACTCGGGCTTGGGTGCTGCGCTCGTGGCGCTTGCAGTCTTG	1020
DB	961	GCCAGCGCAATTTGCTTTTGTACTCGGGCTTGGGTGCTGCGCTCGTGGCGCTTGCAGTCTTG	1020
QY	1021	GTCAATGGTGTCAACCTTTTACAGAGCGGAGCGAGTGACTATGGCGTGGACGCTCATTTGAC	1080
DB	1021	GTCAATGGTGTCAACCTTTTACAGAGCGGAGCGAGTGACTATGGCGTGGACGCTCATTTGAC	1080

Matches 1607; Conservative 0; Mismatches 0; Indels 33; Gaps 1;

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QY 1081 TCTTCTGATTCAGAGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGCCAG 1140
Db |||
QY 1048 TCTTCTGATTCAGAGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGCCAG 1107
Db |||
QY 1141 AATATCATGGAACCTAATGATACAGAAATCTTTGGTAACTCCCTGCTCTCTGAATTC 1200
Db |||
QY 1108 AATATCATGGAACCTAATGATACAGAAATCTTTGGTAACTCCCTGCTCTCTGAATTC 1167
Db |||
QY 1201 GCCATGAGCCAGATCTGACAGTGGAGCGGACATACAGCGGACCCATCTGTCTGCAGGAC 1260
Db |||
QY 1168 GCCATGAGCCAGATCTGACAGTGGAGCGGACATACAGCGGACCCATCTGTCTGCAGGAC 1227
Db |||
QY 1261 CCTCTGACAGGAGCTCATGACAGAGTCTCTCACTCTTTAAACCTTTGTGCGACATCAAA 1320
Db |||
QY 1228 CCTCTGACAGGAGCTCATGACAGAGTCTCTCACTCTTTAAACCTTTGTGCGACATCAAA 1287
Db |||
QY 1321 GTGAAAGTCCAGAGTCTGTTTCACTGTTTCCCTGGAGTGTCTGAGAGCTGAGTACCAC 1380
Db |||
QY 1288 GTGAAAGTCCAGAGTCTGTTTCACTGTTTCCCTGGAGTGTCTGAGAGCTGAGTACCAC 1347
Db |||
QY 1381 GGCAAGATCATTCAGAGCTTTTCCCATGGAACCAACACAGCTTTAGTACAAATGCAT 1440
Db |||
QY 1348 GGCAAGATCATTCAGAGCTTTTCCCATGGAACCAACACAGCTTTAGTACAAATGCAT 1407
Db |||
QY 1441 CCCAGAAATAAATGCCCTACATCCAAATCTGTCTCATCTCCCCACAGGACAGAACTG 1500
Db |||
QY 1408 CCCAGAAATAAATGCCCTACATCCAAATCTGTCTCATCTCCCCACAGGACAGAACTG 1467
Db |||
QY 1501 AGGACAACTGGTGTCTTTGGCCATTTAGGGGGGCGCTTAGTAAATGCCAAATACAGGGGTG 1560
Db |||
QY 1468 AGGACAACTGGTGTCTTTGGCCATTTAGGGGGGCGCTTAGTAAATGCCAAATACAGGGGTG 1527
Db |||
QY 1561 AGCTTACTATACACACAGTGGCCATCCAGAGGAGAAATCTTTGGGAGATTTATATGTC 1620
Db |||
QY 1528 AGCTTACTATACACACAGTGGCCATCCAGAGGAGAAATCTTTGGGAGATTTATATGTC 1587
Db |||
QY 1621 ATCAACCAAGTGAACCCAG 1640
Db |||
QY 1588 ATCAACCAAGTGAACCCAG 1607
Db |||
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## RESULT 12

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US-09-969-532-5
; Sequence 5, Application US/09969532
; Patent No. 6777232
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides Encodir
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/09/969,532
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1692
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-969-532-5
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Query Match 56.5%; Score 1546; DB 4; Length 1692;
Best Local Similarity 97.4%; Pred. No. 0;
Matches 1598; Conservative 0; Mismatches 0; Indels 42; Gaps 1;

QY 1 ATGGGAGAGCGCGCCACCGCAGCGCGCGCGGAGCGCGCGCTGGCTCCCGTGG 60
Db |||
QY 61 CTGGGCTGTCTTCTGGGCGGAGGACCGCGCTGCCGAGGAACTGACATGGCGAA 120
Db |||
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Db 61 CTGGGCTGTCTTCTGGGCGGAGGACCGCGCTGCCGAGGAACTGACATGGCGAA 120
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RESULT 13
US-09-969-532-7
; Sequence 7, Application US/09969532
; Patent No. 677232
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: No. 677232el Human Membrane Proteins and Polynucleotides Encodin
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/09/969,532
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 1659
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-969-532-7

Query Match 53.7%; Score 1470; DB 4; Length 1659;
Best Local Similarity 95.4%; Pred. No. 0;
Matches 1565; Conservative 0; Mismatches 0; Indels 75; Gaps 2;

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Db 1 ATGGGGAGAGCGGGCGCCACCGCAGGCGGGCGGGAGGGCGCGCGCTGCTCCCGTGG 60
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Db 61 CTGGGGCTGTGCTTCTGGGCGGAGGAGACCGCGGCTGCCAGGAATGACAAATGGCGAA 120
QY 121 GCCCTTCCCGAATCCATCCCATCAGCTCTGGGACACTGCTCTATTTCATGAGAGGCCA 180
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QY 181 GATGATGCTTATATTAATCAAGAGCAACCTTATGCACTCAGGTGCAAGCGGACGCC 240
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Db 301 GAGACTCTGGACGAGAGCTCAGAGTTCGGAAGTTCGCGAAGTGTTCATCAATGTTACTAGG 360
QY 361 CAACAGTGGAGAGCTTCATGCGGCGCGAGACATTTGGTCCAGTGTGTGGCGTGGAGC 420
Db 361 CAACAGTGGAGAGCTTCATGCGGCGCGAGACATTTGGTCCAGTGTGTGGCGTGGAGC 420
QY 421 CACCTGGGTACTCCCAAGAGCAGGAAGSCCTCTGTGCGCATAGCTATTTACGGAAAAAAC 480
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Db 661 GCAAGGCTCTCGGACTCAGGAAATTTACCTGTCATGGCAGCCCAACATCGTGGCTAAGAGG 720
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Db 721 AGAAGCCTCTCGGCGGCACTGTTGTGCTCTACGTGGAATGGAGCTGGGAGTGTGGAGCGAA 780
QY 781 TGGTCCGCTCTGCAGTCCAGAGTGTGAAACATTTGCGGATCCGCGGAGTGACACACACCC 840
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Db 841 CCGAGAAATGGGGGCAAAATTTCTGAAAGTCTAAAGCCAGGAATCTGAAACCTGCACAGAT 900
QY 901 GGTCTTTGTCATCTAGATAAAAAAAGCTCTTCTCATGAAATAAAAAACCCCAAGCAATGAGAT 960
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QY 1201 GCCATGAGCCAGATCTGACAGTACCGGACATACAGCGGACCCATCTGTCTGCAGGAC 1260
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	Score	Match	Length	ID	
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2	2736	100.0	3411	18	US-10-798-721-33
3	2660	97.2	2703	18	US-10-798-721-11
4	2642	96.6	2694	18	US-10-798-721-13
5	2566	93.8	2661	18	US-10-798-721-15
6	2320.8	84.8	8899	18	US-10-723-860-7444
7	2287	83.6	2979	18	US-10-473-518-136
8	2284	83.5	2868	19	US-10-872-681-55
9	2260	82.6	2898	17	US-10-094-886-115
10	2220	81.1	2661	19	US-10-872-681-53
11	2043	74.7	2043	18	US-10-798-721-25

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 121 GCCTTCCCAGATCCATCCATCAGTCTCTGGGACACTGCTCTCATTTTCATAGAGGACCA 180  
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 181 GATGATGCTTATATATCAAGAGCAACCCCTATTGCACTCAGGTGCAAGCGAGGCCAGCC 240  
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 361 CAACAGGTGAGAGCTTCCATGCGGCGGAGGACTATTGTTGCGGAGTGTGTTGCGGAGG 420  
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 421 CACCTGGTACCTCCAGAGCAGGAGGCTCTGTCGATAGCCTATTATACGGAAGAAC 480  
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Qy      2641  GAAGAGATTGGGAGGACACACAGAACTCTCAAACTTTCAAGATCCAGCTTGTATGAA 2700
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## RESULT 2

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US-10-798-721-33
; Sequence 33, Application US/10798721
; Publication No. US20040248166A1
; GENERAL INFORMATION:
; APPLICANT: Wake, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: Novel Human Membrane Proteins and Polynucleotides Encoding the Sa
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/10/798,721
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US/09/969,532
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 3411
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-798-721-33
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 2736; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      121  GCCCTTCCCGAATCCATCCCATGCTCTCGGAGACATGCTCATTTATAGAGAGCCA 180
Db      235  GCCCTTCCCGAATCCATCCCATGCTCTCGGAGACATGCTCATTTATAGAGAGCCA 294
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Db      355  ATCAGATATTTCTTCAAAATGCAACGGGAGTGGGTCCATCAGAACGAGCACTGCTCTGAA 414
Qy      301  GAGACTCTGACAGAGCTCAGGTTTGAAGGTCGGGAGTGGTTCATCAATGTTACTAGG 360
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Qy      481  TTTGAAACAAGACCCACAAGGAAGGAAGTTCCCATTTGAAGGSCATGATTGTACTGACATGC 540
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Qy      541  CGCCCAACAGAGGAGTCCCTGCTGCGGAGTGGAAATGGCTGAAAAATGAAGAGCCCAT 600
Db      655  CGCCCAACAGAGGAGTCCCTGCTGCGGAGTGGAAATGGCTGAAAAATGAAGAGCCCAT 714
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Db      715  GACTCTGAAACAAGACAGAGAAATGTGACACAGGGCTGACCATAACTTGATCATCAGGAG 774
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Qy      721  AGAAGCTGTGCGGCCACTGTTGTGGTCTACGTGGATGGGAGCTGGGAAGTGTGGAGCGAA 780
Db      835  AGAAGCTGTGCGGCCACTGTTGTGGTCTACGTGGATGGGAGCTGGGAAGTGTGGAGCGAA 894
Qy      781  TGTGCTGTGTCAGTCCAGAGTGTGAACATTTGCGGATCCGGAGTGCAGAGCAACACCC 840
Db      895  TGTGCTGTGTCAGTCCAGAGTGTGAACATTTGCGGATCCGGAGTGCAGAGCAACACCC 954
Qy      841  CCGAGAAATGGGGGCAAAATTTCTGGAAGTCTAAGCCAGGAATCTGAAAACTGCACAGAT 900
Db      955  CCGAGAAATGGGGGCAAAATTTCTGGAAGTCTAAGCCAGGAATCTGAAAACTGCACAGAT 1014
Qy      901  GGTCTTTGCACTCTAGATAAAAAACCTCTTTCATGAATAAAAAACCCCAAGCATTTGAGAA 960
Db      1015  GGTCTTTGCACTCTAGATAAAAAACCTCTTTCATGAATAAAAAACCCCAAGCATTTGAGAA 1074
Qy      961  GCCAGGACATTTGTTGTAATCGGGCTTGGGTGCTGCGCTGCTGGCGCTTGCAGTCTGT 1020
Db      1075  GCCAGGACATTTGTTGTAATCGGGCTTGGGTGCTGCGCTGCTGGCGCTTGCAGTCTGT 1134
Qy      1021  GTCAATTTGGTGTACCCCTTTACAGACGAGCCAGAGTGACTATATGCGGTGGAGCTCATTTGAC 1080
Db      1135  GTCAATTTGGTGTACCCCTTTACAGACGAGCCAGAGTGACTATATGCGGTGGAGCTCATTTGAC 1194
Qy      1081  TCTTCTGCAATTTGACAGTGGCTTCCAGACCTTCAAACTTTCAAAACAGTCCCGTCAAGCCAAG 1140
Db      1195  TCTTCTGCAATTTGACAGTGGCTTCCAGACCTTCAAACTTTCAAAACAGTCCCGTCAAGCCAAG 1254
Qy      1141  AATATCATGAACTAATGATACAGAAAAATTCCTTTGGTAACTCCCTGCTGCTGAAATCT 1200
Db      1255  AATATCATGAACTAATGATACAGAAAAATTCCTTTGGTAACTCCCTGCTGCTGAAATCT 1314
Qy      1201  GCCATGCGGACATCTGACAGTGGCCGAGCATACAGCGGACCCATCTCTCTGACAGAC 1260
Db      1315  GCCATGCGGACATCTGACAGTGGCCGAGCATACAGCGGACCCATCTCTCTGACAGAC 1374
Qy      1261  CCTCTGGAACAAGAGCTCATGACAGAGTCCCTCACTCTTTAAACCTTTGTCGAGCATCAAA 1320
Db      1375  CCTCTGGAACAAGAGCTCATGACAGAGTCCCTCACTCTTTAAACCTTTGTCGAGCATCAAA 1434
```

QY 1321 GTGAAGTCCAGAGCTCGTTTCATGGTTTCCCTGGAGTGTCTCAGAGAGCTGAGTACCAC 1380  
 Db 1435 GTGAAGTCCAGAGCTCGTTTCATGGTTTCCCTGGAGTGTCTCAGAGAGCTGAGTACCAC 1494  
 QY 1381 GGCAAGATCATTTCCAGGACTTTTCCCATGGAAACAAACACAGCTTTTAGTACATGCAAT 1440  
 Db 1495 GGCAGNATCATTTCCAGGACTTTTCCCATGGAAACAAACAGCTTTTAGTACATGCAAT 1554  
 QY 1441 CCCAGAAATAAATGGCCCTACATCCCAAAATCTGTCTCATCTCCCAACAGAGCAGAACTG 1500  
 Db 1555 CCCAGAAATAAATGGCCCTACATCCCAAAATCTGTCTCATCTCCCAACAGAGCAGAACTG 1614  
 QY 1501 AGCACAACCTGGTCTCTTTGGCCATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGG 1560  
 Db 1615 AGCACAACCTGGTCTCTTTGGCCATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGG 1674  
 QY 1561 AGCTTACTCATACACACGGTGCATCCCAAGAGAGAAATCTTTGGGAGATTTATATGTCC 1620  
 Db 1675 AGCTTACTCATACACACGGTGCATCCCAAGAGAGAAATCTTTGGGAGATTTATATGTCC 1734  
 QY 1621 ATCAACCAAGGTGAACCCAGCCTCCAGTCCAGTCCAGTGGCTCTGAGTGTCTCTGAGTCTGAA 1680  
 Db 1735 ATCAACCAAGGTGAACCCAGCCTCCAGTCCAGTCCAGTGGCTCTGAGTGTCTCTGAGTCTGAA 1794  
 QY 1681 GTCACCTGTGGTCTCCAGACATGATCGTCCACCATCCCTTTTGCATTTGACCATCCCGCAC 1740  
 Db 1795 GTCACCTGTGGTCTCCAGACATGATCGTCCACCATCCCTTTTGCATTTGACCATCCCGCAC 1854  
 QY 1741 TGTGCAGATGTCACTTCTGAGCATTTGAATATCCATTTAAAGAGAGGACACAGCAGGGC 1800  
 Db 1855 TGTGCAGATGTCACTTCTGAGCATTTGAATATCCATTTAAAGAGAGGACACAGCAGGGC 1914  
 QY 1801 AATGGAGAGAGTGTCACTGAGTGAAGATGAATCTACATCTCTTACTGCTCTTTGGAC 1860  
 Db 1915 AATGGAGAGAGTGTCACTGAGTGAAGATGAATCTACATCTCTTACTGCTCTTTGGAC 1974  
 QY 1861 CCCTTTCCGTGTCTATGCTCTCCAGACATTTTGGGACCTATGCGCTCACTGAGAGGCCA 1920  
 Db 1975 CCCTTTCCGTGTCTATGCTCTCCAGACATTTTGGGACCTATGCGCTCACTGAGAGGCCA 2034  
 QY 1921 ATCAACAGATGTGCGGTGAAGCAATCAAGGTGGCGGTTTTGGTGTGATGTCTGTAAAC 1980  
 Db 2035 ATCAACAGATGTGCGGTGAAGCAATCAAGGTGGCGGTTTTGGTGTGATGTCTGTAAAC 2094  
 QY 1981 TCCCTGTATTAACATTTGAGAGTTTACTGTGTGACAAATACCCCTTGTGATTTTCAGGAA 2040  
 Db 2095 TCCCTGTATTAACATTTGAGAGTTTACTGTGTGACAAATACCCCTTGTGATTTTCAGGAA 2154  
 QY 2041 GTGGTTTCAGATGAAGGCATCAAGGTGGAGCAGCTCTCGGAAGAACCAAAATTTGCTGCAT 2100  
 Db 2155 GTGGTTTCAGATGAAGGCATCAAGGTGGAGCAGCTCTCGGAAGAACCAAAATTTGCTGCAT 2214  
 QY 2101 TTCAAGGGGAATACCTTTAGTCTTTTCAATTTCTGTCTGATATTCCTCCCATTTCTCTGG 2160  
 Db 2215 TTCAAGGGGAATACCTTTAGTCTTTTCAATTTCTGTCTGATATTCCTCCCATTTCTCTGG 2274  
 QY 2161 AGAATTAACCAATTTCACTGCTGCGCAGAGTCCCGTTCTCCGCGGTGTGTGAGTAAC 2220  
 Db 2275 AGAATTAACCAATTTCACTGCTGCGCAGAGTCCCGTTCTCCGCGGTGTGTGAGTAAC 2334  
 QY 2221 CGGCAGCCCTGCACTGTGCTCTTCTCCCTGGAGCGTTATAGCCCACTTACCACCACTG 2280  
 Db 2335 CGGCAGCCCTGCACTGTGCTCTTCTCCCTGGAGCGTTATAGCCCACTTACCACCACTG 2394  
 QY 2281 TCCTGCAAAATCTGATTTGGCAGCTCAAGGCCATGAACAGATCTCTCAAGTGCAGACA 2340  
 Db 2395 TCCTGCAAAATCTGATTTGGCAGCTCAAGGCCATGAACAGATCTCTCAAGTGCAGACA 2454  
 QY 2341 TCAATCTCTAGAGTGAACGAGAAACCATCACTTTCTTGGCAAGAGGACAGCAGCTTTC 2400  
 Db 2455 TCAATCTCTAGAGTGAACGAGAAACCATCACTTTCTTGGCAAGAGGACAGCAGCTTTC 2514

QY 2401 CCTGCACAGACTGGCCCCCAAGACCTTCAAAATTCCTACTCATCAGACAGCGGATTTGT 2460  
 Db 2515 CCTGCACAGACTGGCCCCCAAGACCTTCAAAATTCCTACTCATCAGACAGCGGATTTGT 2574  
 QY 2461 GCTCATTTGATATCCCCCAATGCCAAAGGCAAGCTGGCAGATGTTAGCAGAGAAAC 2520  
 Db 2575 GCTCATTTGATATCCCCCAATGCCAAAGGCAAGCTGGCAGATGTTAGCAGAGAAAC 2634  
 QY 2521 AGCATCAACAGAAATTTATCTTTATTTCTGCTACACAAAGTAGCCCATCTGCTGTCTATTTG 2580  
 Db 2635 AGCATCAACAGAAATTTATCTTTATTTCTGCTACACAAAGTAGCCCATCTGCTGTCTATTTG 2694  
 QY 2581 AACCTGTGGAGCTCGTCATCAGCATGATGATGATCTGCTCCCTGGCCTGTGCCCTT 2640  
 Db 2695 AACCTGTGGAGCTCGTCATCAGCATGATGATGATCTGCTCCCTGGCCTGTGCCCTT 2754  
 QY 2641 GAAGAGATTGGAGGACACACAGCAAACTCTCAACATTTCCAGATCCAGCTTCATGAA 2700  
 Db 2755 GAAGAGATTGGAGGACACACAGCAAACTCTCAACATTTCCAGATCCAGCTTCATGAA 2814  
 QY 2701 GCCGACTTCAACTACAGCAGGCAAAATGGACTCTAG 2736  
 Db 2815 GCCGACTTCAACTACAGCAGGCAAAATGGACTCTAG 2850

RESULT 3  
 US-10-798-721-11  
 ; Sequence 11, Application US/10798721  
 ; Publication No. US20040248166A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walke, D. Wade  
 ; TITLE OF INVENTION: Novel Human Membrane Proteins and Polynucleotides Encoding the S  
 ; FILE REFERENCE: LEX-0244-USA  
 ; CURRENT APPLICATION NUMBER: US/10/798,721  
 ; CURRENT FILING DATE: 2004-03-11  
 ; PRIOR APPLICATION NUMBER: US/09/969,532  
 ; PRIOR FILING DATE: 2001-10-02  
 ; PRIOR APPLICATION NUMBER: US 60/237,280  
 ; PRIOR FILING DATE: 2000-10-02  
 ; NUMBER OF SEQ ID NOS: 33  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 11  
 ; LENGTH: 2703  
 ; TYPE: DNA  
 ; ORGANISM: homo sapiens  
 ; US-10-798-721-11

Query Match 97.2%; Score 2660; DB 18; Length 2703;  
 Best Local Similarity 98.8%; Pred. No. 0;  
 Matches 2703; Conservative 0; Mismatches 0; Indels 33; Gaps 1;

QY 1 ATGGGGAGAGCGCGGCCACCGCAGCGCGCGGAGGCGCGCGCTCGGCTCCCGTGG 60  
 Db 1 ATGGGGAGAGCGCGGCCACCGCAGCGCGCGGAGGCGCGCGCTCGGCTCCCGTGG 60  
 QY 61 CTGGGGCTGTGCTTTCTGGCGCGGAGGACCGCGGCTGCGCGAGGAATCAATGCGGAA 120  
 Db 61 CTGGGGCTGTGCTTTCTGGCGCGGAGGACCGCGGCTGCGCGAGGAATCAATGCGGAA 120  
 QY 121 GCCCTTCCGAAATCCATCCCATCAGCTCTGGGACACTGCTCATTTTCATAGAGGAGCCA 180  
 Db 121 GCCCTTCCGAAATCCATCCCATCAGCTCTGGGACACTGCTCATTTTCATAGAGGAGCCA 180  
 QY 181 GATGATGCTTATATATCAAGAGCAACCTTATTCATCTCAGGTGCAAGAGCGGCGAGCC 240  
 Db 181 GATGATGCTTATATCAAGAGCAACCTTATTCATCTCAGGTGCAAGAGCGGCGAGCC 240  
 QY 241 ATGCAGATATTTTCAAAATGCAAGCGGAGTGGTCCATCAGAACGAGCAGCTCTCTGAA 300  
 Db 241 ATGCAGATATTTTCAAAATGCAAGCGGAGTGGTCCATCAGAACGAGCAGCTCTCTGAA 300  
 QY 301 GAGACTCTGAGCAGAGAGCTCAGGTTTGAAGGTCGCGGAAGTGTTCATCAATGTTACTAGG 360



QY 2521 AGCATCAACAGGAATTTATCTTATTTGCTACACAAAGTAGCCCATCTGCTGTCATTTTG 2580  
 Db 2488 AGCATCAACAGGAATTTATCTTATTTGCTACACAAAGTAGCCCATCTGCTGTCATTTTG 2547  
 QY 2581 AACCTGGGAAAGCTGCTATCAGCATGATGGTGAATTTGACCTCCCTGGCCTGTGCCCTT 2640  
 Db 2548 AACCTGGGAAAGCTGCTATCAGCATGATGGTGAATTTGACCTCCCTGGCCTGTGCCCTT 2607  
 QY 2641 GAAGAGATTGGGAGGACACACAGAAACTCTCAACATTTTCAGAAATCCAGCTTGATGAA 2700  
 Db 2608 GAAGAGATTGGGAGGACACACAGAAACTCTCAACATTTTCAGAAATCCAGCTTGATGAA 2667  
 QY 2701 GCGGACTTCAACTACAGCAGCGCAAAATGGACTCTAG 2736  
 Db 2668 GCGGACTTCAACTACAGCAGCGCAAAATGGACTCTAG 2703

RESULT 4  
 US-10-798-721-13  
 ; Sequence 13, Application US/10798721  
 ; Publication No. US20040248166A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walke, D. Wade  
 ; TITLE OF INVENTION: Novel Human Membrane Proteins and Polynucleotides Encoding the Sa  
 ; FILE REFERENCE: LEX-0244-USA  
 ; CURRENT APPLICATION NUMBER: US/10/798,721  
 ; PRIORITY FILING DATE: 2004-03-11  
 ; PRIOR APPLICATION NUMBER: US/09/969,532  
 ; PRIOR FILING DATE: 2001-10-02  
 ; PRIOR APPLICATION NUMBER: US 60/237,280  
 ; PRIOR FILING DATE: 2000-10-02  
 ; NUMBER OF SEQ ID NOS: 33  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 13  
 ; LENGTH: 2694  
 ; TYPE: DNA  
 ; ORGANISM: homo sapiens  
 US-10-798-721-13

Query Match 96.6%; Score 2642; DB 18; Length 2694;  
 Best Local Similarity 98.5%; Pred. No. 0;  
 Matches 2694; Conservative 0; Mismatches 0; Indels 42; Gaps 1;  
 QY 1 ATGGGAGAGCGGCGCCACCGCAGCGCGGCGGAGGCGCGCGCTGGCTCCCGTGG 60  
 Db 1 ATGGGAGAGCGGCGCCACCGCAGCGCGGCGGAGGCGCGCGCTGGCTCCCGTGG 60  
 QY 61 CTGGGGCTGTGCTTTCTGGGCGGAGGACCGCGGCTGCCCGAGGAACTGACAATGGCGAA 120  
 Db 61 CTGGGGCTGTGCTTTCTGGGCGGAGGACCGCGGCTGCCCGAGGAACTGACAATGGCGAA 120  
 QY 121 GCCCTTCCCGAATCCATCCATCAGCTCTGGGACACTGCTCATTTATAGAGAGGCCA 180  
 Db 121 GCCCTTCCCGAATCCATCCATCAGCTCTGGGACACTGCTCATTTATAGAGAGGCCA 180  
 QY 181 GATGATGCTTATATTATCAAGAGCAACCTATTGCACTCAGGTGCAAGCGGCGGAGCC 240  
 Db 181 GATGATGCTTATATTATCAAGAGCAACCTATTGCACTCAGGTGCAAGCGGCGGAGCC 240  
 QY 241 ATGCAGATATTTCTCAAAATCAACCGGAGTGGGTCCATCAGAACGAGCAGCTCTCTGAA 300  
 Db 241 ATGCAGATATTTCTCAAAATCAACCGGAGTGGGTCCATCAGAACGAGCAGCTCTCTGAA 300  
 QY 301 GAGACTCTGACAGAGCTCAGGTTTGAAGTCCGCGGAGTGTTCATCAATGTTACTAGG 360  
 Db 301 GAGACTCTGACAGAGCTCAGGTTTGAAGTCCGCGGAGTGTTCATCAATGTTACTAGG 360  
 QY 361 CAACAGGTGAGGACTTCCATGCGCGGAGGACTATTGGTCCAGTGTGGCGTGGAGC 420  
 Db 361 CAACAGGTGAGGACTTCCATGCGCGGAGGACTATTGGTCCAGTGTGGCGTGGAGC 420

QY 421 CACCTGGGTACCTCCCAAGAGCAGGAAGGCTCTGTGCGCATAGCCTATTATTACGAAAAAC 480  
 Db 421 CACCTGGGTACCTCCCAAGAGCAGGAAGGCTCTGTGCGCATAGCCTATTATTACGAAAAAC 480  
 QY 481 TTTGAAACAGAGACCCCAAGGAAGGAAGTTCCCATTTGAAGGCATGATTTGACTGCACTGC 540  
 Db 481 TTTGAAACAGAGACCCCAAGGAAGGAAGTTCCCATTTGAAGGCATGATTTGACTGCACTGC 540  
 QY 541 CGCCACCAAGAGGAGTCCCTGCTGCGGAGGTGGAAATGGCTGAAATGAAGAGCCCATTT 600  
 Db 541 CGCCACCAAGAGGAGTCCCTGCTGCGGAGGTGGAAATGGCTGAAATGAAGAGCCCATTT 600  
 QY 601 GACTCTGAACAAGACAGCAACATTGACACAGGGCTGACCATTAACCTGATCATCAGCAG 660  
 Db 601 GACTCTGAACAAGACAGCAACATTGACACAGGGCTGACCATTAACCTGATCATCAGCAG 660  
 QY 661 GACCGCTCTCGGACTCAGGAATAATACCTGTCATGCGAGCCAACTATCGTGGCTAAGAGG 720  
 Db 661 GACCGCTCTCGGACTCAGGAATAATACCTGTCATGCGAGCCAACTATCGTGGCTAAGAGG 720  
 QY 721 AGAAGCCTGTGCGCCACTGTTGTGCTAGCTGGATGGGAGCTGGGAAGTGTGGAGCGAA 780  
 Db 721 AGAAGCCTGTGCGCCACTGTTGTGCTAGCTGGATGGGAGCTGGGAAGTGTGGAGCGAA 780  
 QY 781 TGGTCCGTCTGCAAGTCCAGAGTGTGAACATTTTGGGATCCGGAGTGCAAGCACCACCC 840  
 Db 781 TGGTCCGTCTGCAAGTCCAGAGTGTGAACATTTTGGGATCCGGAGTGCAAGCACCACCC 840  
 QY 841 CCGAGAAATGGGGGCAAAATTTCTGTAAGGTCTAAGCCAGGAATCTGAAAATCTGCACAG 900  
 Db 841 CCGAGAAATGGGGGCAAAATTTCTGTAAGGTCTAAGCCAGGAATCTGAAAATCTGCACAG 900  
 QY 901 GGTCTTTGTCATCTAGATAAAACCTTTTCATGAATAAAACCCCAAGACATTTGAGAAT 960  
 Db 901 GGTCTTTGTCATCTAGATAAAACCTTTTCATGAATAAAACCCCAAGACATTTGAGAAT 960  
 QY 961 GCCAGCGACATTTGTTGTACTCGGGCTTTGGGTGCTGCGCTCGTGGCGGTGAGTCTCTG 1020  
 Db 961 GCCAGCGACATTTGTTGTACTCGGGCTTTGGGTGCTGCGCTCGTGGCGGTGAGTCTCTG 1020  
 QY 1021 GTCAATTTGGTGTACCTTTTACAGACGAGGACAGAGTACTATGGCGTGGACGTGATGAC 1080  
 Db 1021 GTCAATTTGGTGTACCTTTTACAGACGAGGACAGAGTACTATGGCGTGGACGTGATGAC 1080  
 QY 1081 TCTTCTGCAATTTGACAGTGGCTTCCAGACTTCAAACTTCAAAACAGTCCGTCAA----- 1134  
 Db 1081 TCTTCTGCAATTTGACAGTGGCTTCCAGACTTCAAACTTCAAAACAGTCCGTCAA----- 1134  
 QY 1141 AATATCATGGAACATAATGATACAAGAAAAATCCTTTTGGTAACTCCCTGCTCTGAAATTTCT 1200  
 Db 1135 -----GGTAACTCCCTGCTCTGAAATTTCT 1158  
 QY 1201 GCCATGCGCAGATCTGACAGTGGCGGACATACAGCGGACCCATCTGTCTGCGAGGAC 1260  
 Db 1159 GCCATGCGCAGATCTGACAGTGGCGGACATACAGCGGACCCATCTGTCTGCGAGGAC 1218  
 QY 1261 CCTCTGGAACAAGAGCTCATGACAGAGTCTCTACTCTTTAAACCTTTTGTGCGACATCAAA 1320  
 Db 1219 CCTCTGGAACAAGAGCTCATGACAGAGTCTCTACTCTTTAAACCTTTTGTGCGACATCAAA 1278  
 QY 1321 GTGAAAGTCCAGAGCTCGTTTCATGTTTCCCTGGGAGTGTCTGAGAGAGTGTGAGTACCAC 1380  
 Db 1279 GTGAAAGTCCAGAGCTCGTTTCATGTTTCCCTGGGAGTGTCTGAGAGAGTGTGAGTACCAC 1338  
 QY 1381 GGCAGAAATTCATTCAGGACTTTTCCCATGGAACAAACACAGCTTTAGTACAAATGCAT 1440  
 Db 1339 GGCAGAAATTCATTCAGGACTTTTCCCATGGAACAAACACAGCTTTAGTACAAATGCAT 1398  
 QY 1441 CCAGAGAAATAAATGCTTACATCCAAATCTGTCTACTCTCCCAAGAGCAGAACTG 1500  
 Db 1399 CCAGAGAAATAAATGCTTACATCCAAATCTGTCTACTCTCCCAAGAGCAGAACTG 1458  
 QY 1501 AGGACAACTGGTGTCTTTGGCCATTTTAGGGGGGCGCTTAGTAAATGCAAAATACAGGGGTG 1560

Db	1459	AGGACAACTGGTGTCTTTTGGCCATTTTAGGGGGGGCGCTTAGTAAATGCCAAATACAGGGGTG	1518
Qy	1561	AGCTTACTCATATCACACACGGTGGCCATCCCAGAGGAGAAATTCCTGGGAGATTTATATGTCC	1620
Db	1519	AGCTTACTCATATCACACACGGTGGCCATCCCAGAGGAGAAATTCCTGGGAGATTTATATGTCC	1578
Qy	1621	ATCAACCAAGGTGAAACCCAGCGCTCCAGTCAGATGGCTCTGAGTGTCTCTGAGTCTCTGAA	1680
Db	1579	ATCAACCAAGGTGAAACCCAGCGCTCCAGTCAGATGGCTCTGAGTGTCTCTGAGTCTCTGAA	1638
Qy	1681	GTCACTGTGGTCTCTCCAGACATGATCGTCAACATCCCTTTTGCATTTGACATCCCGCAC	1740
Db	1639	GTCACTGTGGTCTCTCCAGACATGATCGTCAACATCCCTTTTGCATTTGACATCCCGCAC	1698
Qy	1741	TGTGCAGATGTCACTTCTGAGCATTTGGAATATCCATTTAAAGAAAGAGGACACACAGCAGGGC	1800
Db	1699	TGTGCAGATGTCACTTCTGAGCATTTGGAATATCCATTTAAAGAAAGAGGACACACAGCAGGGC	1758
Qy	1801	AAATGGGAGAAAGTGTCTCAGTGGAAAGATGAATCTACATCCTGTGTACTGCCCTTTTGGAC	1860
Db	1759	AAATGGGAGAAAGTGTCTCAGTGGAAAGATGAATCTACATCCTGTGTACTGCCCTTTTGGAC	1818
Qy	1861	CCCTTTGGGTGTCAATGTGCTCTCTGGACAGCTTTTGGGACCTATGGGCTCACTGGAGAGCCA	1920
Db	1819	CCCTTTGGGTGTCAATGTGCTCTCTGGACAGCTTTTGGGACCTATGGGCTCACTGGAGAGCCA	1878
Qy	1921	ATCACAGACTGTGCGGTGAAGAGCAACTCAAGTGTGCGGTGTTTTTGGCTGCATGTCTCTGAAC	1980
Db	1879	ATCACAGACTGTGCGGTGAAGAGCAACTCAAGTGTGCGGTGTTTTTGGCTGCATGTCTCTGAAC	1938
Qy	1981	TCCTTGGATTAACAATTTGAGAGTTTACTGTGTGGACAAATACCCCTTGTGTCAATTTCAAGAA	2040
Db	1939	TCCTTGGATTAACAATTTGAGAGTTTACTGTGTGGACAAATACCCCTTGTGTCAATTTCAAGAA	1998
Qy	2041	GTGGTTTCAGATGAAAGGCATCAAGTGGACAGCTCCTCGAAGAAACCAAAATTTCTGTGCAT	2100
Db	1999	GTGGTTTCAGATGAAAGGCATCAAGTGGACAGCTCCTCGAAGAAACCAAAATTTCTGTGCAT	2058
Qy	2101	TTCAAGGGGAATACCTTTTAGTCTTCAGATTTCTGTCTCTGCATATTCCTCCCATTCCTCTGG	2160
Db	2059	TTCAAGGGGAATACCTTTTAGTCTTCAGATTTCTGTCTCTGCATATTCCTCCCATTCCTCTGG	2118
Qy	2161	AGAAATTAACCAATTCACCTGCTGCGAGAAAGTCCCGTTCTCCGCGGTGTGGTGCAGTAAC	2220
Db	2119	AGAAATTAACCAATTCACCTGCTGCGAGAAAGTCCCGTTCTCCGCGGTGTGGTGCAGTAAC	2178
Qy	2221	CGGAGGCCCTTGCACTGTGCGCTTCTCCTCGAGGGTTATAGGCCCATCTACACCCAGCTG	2280
Db	2179	CGGAGGCCCTTGCACTGTGCGCTTCTCCTCGAGGGTTATAGGCCCATCTACACCCAGCTG	2238
Qy	2281	TCCTGCAAAATCTGCATTCGGGAGCTCAAAAGGCCATGAAACAGATCTCTCCAAAGTGCAGACA	2340
Db	2239	TCCTGCAAAATCTGCATTCGGGAGCTCAAAAGGCCATGAAACAGATCTCTCCAAAGTGCAGACA	2298
Qy	2341	TCAATCCTAGAGAGTGAACGAGAAACCATCACTTTTCTTCGCAAAAGGAGCAGACATTTTC	2400
Db	2299	TCAATCCTAGAGAGTGAACGAGAAACCATCACTTTTCTTCGCAAAAGGAGCAGACATTTTC	2358
Qy	2401	CCTGCAAGACTGTGCCCCCAAGCCTTCAAAATTCCTTACTCTCATCAGACAGCGGATTTGT	2460
Db	2359	CCTGCAAGACTGTGCCCCCAAGCCTTCAAAATTCCTTACTCTCATCAGACAGCGGATTTGT	2418
Qy	2461	GCTACATTTGATACCCCAATGTCAAAGGCAAGGACTGCGAGATGTTTAGCACAGRAAAC	2520
Db	2419	GCTACATTTGATACCCCAATGTCAAAGGCAAGGACTGCGAGATGTTTAGCACAGRAAAC	2478
Qy	2521	AGCATCAACAGGAATTTATCTTATTTTCGCTACACAAAGTAGGCCCATCTGTGTCAATTTTG	2580
Db	2479	AGCATCAACAGGAATTTATCTTATTTTCGCTACACAAAGTAGGCCCATCTGTGTCAATTTTG	2538
Qy	2581	AACTGTGGGAAGCTCGTCTATCAGCATGATGGTGATCTTCACTCCCTGGCCTGTGCCCTT	2640

Db	2539	AACCTGTGGGAAGCTCTCTCATCAGCATGATGGTGATCTTGA	CTCCCTGGCGCTGTGGCCCTT	2539
Qy	2641	GAAGAGATTGGGAGGACACACAGAAACTCTCAAAACATTTT	CAGAAATCCCAGCTTGGATGA	2700
Db	2599	GAAGAGATTGGGAGGACACACAGAAACTCTCAAAACATTTT	CAGAAATCCCAGCTTGGATGA	2658
Qy	2701	GCCGACTTCAACTACAGCAGGCGAAATGGACTCTAG	2736	
Db	2659	GCCGACTTCAACTACAGCAGGCGAAATGGACTCTAG	2694	
RESULT 5				
US-10-798-721-15				
; Sequence 15, Application US/10798721				
; Publication No. US20040248166A1				
; GENERAL INFORMATION:				
; APPLICANT: Walke, D. Wade				
; APPLICANT: Scoville, John				
; TITLE OF INVENTION: Novel Human Membrane Proteins and Polynucleotides Encodi				
; FILE REFERENCE: LEX-0244-USA				
; CURRENT APPLICATION NUMBER: US/10/798, 721				
; CURRENT FILING DATE: 2004-03-11				
; PRIOR APPLICATION NUMBER: US/09/969,532				
; PRIOR FILING DATE: 2001-10-02				
; PRIOR APPLICATION NUMBER: US 60/237,280				
; PRIOR FILING DATE: 2000-10-02				
; NUMBER OF SEQ ID NOS: 33				
; SOFTWARE: FastSeq for Windows Version 4.0				
; SEQ ID NO 15				
; LENGTH: 2661				
; TYPE: DNA				
; ORGANISM: homo sapiens				
US-10-798-721-15				
Query Match 93.8%; Score 2566; DB 18; Length 2661;				
Best Local Similarity 97.3%; Pred. No. 0;				
Matches 2661; Conservative 0; Mismatches 0; Indels 75; Gaps 2;				
Qy	1	ATGGGGAGAGCGGCGGCACCGCAGGCGGCGGAGGGCGGCGCTGGCTCCCGTGG	60	
Db	1	ATGGGGAGAGCGGCGGCACCGCAGGCGGCGGAGGGCGGCGCTGGCTCCCGTGG	60	
Qy	61	CTGGGGCTGTGCTTCTGGGCGGCGAGGACCGCGGCTGCCGAGAACTGA	120	
Db	61	CTGGGGCTGTGCTTCTGGGCGGCGAGGACCGCGGCTGCCGAGAACTGA	120	
Qy	121	GCCCTTCCCGAATCCATCCCATCAGCTCCCTGGGACACTGCCTCATTTTCATAGGAGGCCA	180	
Db	121	GCCCTTCCCGAATCCATCCCATCAGCTCCCTGGGACACTGCCTCATTTTCATAGGAGGCCA	180	
Qy	181	GATGATGCTTATATTAATCAAGAGCAACCTTATTGCACTCAGGTGCAAGCGAGGCCAGCC	240	
Db	181	GATGATGCTTATATTAATCAAGAGCAACCTTATTGCACTCAGGTGCAAGCGAGGCCAGCC	240	
Qy	241	ATGCAGATATTTCTCAAATCAACGGCGAGTGGGTCCATCAGAACGAGCACTCTCTGAA	300	
Db	241	ATGCAGATATTTCTCAAATCAACGGCGAGTGGGTCCATCAGAACGAGCACTCTCTGAA	300	
Qy	301	GAGACTCTGACGAGAGCTCAGTTTGAAGGTCGCGAAGTGTTCATCATGTTACTAGG	360	
Db	301	GAGACTCTGACGAGAGCTCAGTTTGAAGGTCGCGAAGTGTTCATCATGTTACTAGG	360	
Qy	361	CAACAGGTGGAGGACTTCCATGGGCCCGAGGACTATTGGTGCCAGTGTGGGTGGAGC	420	
Db	361	CAACAGGTGGAGGACTTCCATGGGCCCGAGGACTATTGGTGCCAGTGTGGGTGGAGC	420	
Qy	421	CACCTGGGTACCTCCAAAGACAGGAAGGSCCTCTGTGCGCATAGCCTATTTACGGA	480	
Db	421	CACCTGGGTACCTCCAAAGACAGGAAGGSCCTCTGTGCGCATAGCCTATTTACGGA	480	
Qy	481	TTTGAAACAAGACCCACAAGGAAGGGAAGTTCCCATTTGAAGCATGATTTACTGCATGC	540	
Db	481	TTTGAAACAAGACCCACAAGGAAGGGAAGTTCCCATTTGAAGCATGATTTACTGCATGC	540	



541 CGCCACAGAGGAGTCCCTGCTGCGAGGTGGAATGCTGAAAAATGAAGGCCATTT 600  
 Db |||||  
 541 CGCCACAGAGGAGTCCCTGCTGCGAGGTGGAATGCTGAAAAATGAAGGCCATTT 600  
 Qy |||||  
 601 GACTCTGAACAAGACAGAGCAATGTACACAGAGGCTGACCAATACCTGATCATCAGGAG 660  
 Db |||||  
 601 GACTCTGAACAAGACAGAGCAATGTACACAGAGGCTGACCAATACCTGATCATCAGGAG 660  
 Qy |||||  
 661 GCACGGCTCTCGGACTCAGGAATTAACCTGATCGCAGGACCAACATCGTGCTAAGAGG 720  
 Db |||||  
 661 GCACGGCTCTCGGACTCAGGAATTAACCTGATCGCAGGACCAACATCGTGCTAAGAGG 720  
 Qy |||||  
 721 AGAAGCTCTGCGGCCACTGTTGTGGTCTACGTGGATGGAGCTGGGAAGTGTGGAGCGAA 780  
 Db |||||  
 721 AGAAGCTCTGCGGCCACTGTTGTGGTCTACGTGGATGGAGCTGGGAAGTGTGGAGCGAA 780  
 Qy |||||  
 781 TGGTCCGTCTGAGTCCAGAGTGTGAACAATTTGCGGATCGGGAGTGTGCAAGCACACC 840  
 Db |||||  
 781 TGGTCCGTCTGAGTCCAGAGTGTGAACAATTTGCGGATCGGGAGTGTGCAAGCACACC 840  
 Qy |||||  
 841 CCAGAAATGGGGCAAAATCTGTGAAGTCTTAAGCCAGGAATCTGAAAACCTGCACAGAT 900  
 Db |||||  
 841 CCAGAAATGGGGCAAAATCTGTGAAGTCTTAAGCCAGGAATCTGAAAACCTGCACAGAT 900  
 Qy |||||  
 901 GGTCTTTGCAATCCTAGATAAAAAACCTCTTTCATGAATAAAAAACCCCAAGCAATTTGAGAAT 960  
 Db |||||  
 901 GGTCTTTGCAATCCTAG-----GCAATGAGAAAT 927  
 Qy |||||  
 961 GCCAGGCAATGCTTTGTACTCGGGCTTGGGTGCTGCGGTCTGCGCGTGGCGGTGCAATTCCTG 1020  
 Db |||||  
 928 GCCAGGCAATGCTTTGTACTCGGGCTTGGGTGCTGCGGTCTGCGCGTGGCGGTGCAATTCCTG 987  
 Qy |||||  
 1021 GTCAATGGTGTACCTTTACAGACGAGCCAGAGTGAATAGCGGTGCAAGCTCATTTGAC 1080  
 Db |||||  
 988 GTCAATGGTGTACCTTTACAGACGAGCCAGAGTGAATAGCGGTGCAAGCTCATTTGAC 1047  
 Qy |||||  
 1081 TCTTCTGCAATGACAGTGGCTTCCAGACCTTCAACTTCAAAAACAGTCCGTCAAGCCAAAG 1140  
 Db |||||  
 1048 TCTTCTGCAATGACAGTGGCTTCCAGACCTTCAACTTCAAAAACAGTCCGTCAA----- 1101  
 Qy |||||  
 1141 AATATCATGGAATTAATGATACAGAAATAATCCTTTGGTAAATCCTCCCTGCTCTCGAATTCCT 1200  
 Db |||||  
 1102 -----GTAACCTCCCTGCTCTCGAATTCCT 1125  
 Qy |||||  
 1201 GCCATGAGCCAGATCTGACAGTGAGCCGACATACAGCGGACCCATCTGTCTGCAAGGAC 1260  
 Db |||||  
 1126 GCCATGAGCCAGATCTGACAGTGAGCCGACATACAGCGGACCCATCTGTCTGCAAGGAC 1185  
 Qy |||||  
 1261 CCTCTGGAACAAGAGGCTCATGACAGAGTCCCTCACTCTTTAAACCTTTTGTGCGGACATCAAA 1320  
 Db |||||  
 1186 CCTCTGGAACAAGAGGCTCATGACAGAGTCCCTCACTCTTTAAACCTTTTGTGCGGACATCAAA 1245  
 Qy |||||  
 1321 GTGAAGTCCAGAGTCTGTTTCTGTTTCTGCGGAGTGTCTGAGAGGCTGAGTACAC 1380  
 Db |||||  
 1246 GTGAAGTCCAGAGTCTGTTTCTGTTTCTGCGGAGTGTCTGAGAGGCTGAGTACAC 1305  
 Qy |||||  
 1381 GGCAAGATCATTTCCAGGACTTTTCCCATGGAACAACACACAGCTTTAGTACAATGCAT 1440  
 Db |||||  
 1306 GGCAAGATCATTTCCAGGACTTTTCCCATGGAACAACACACAGCTTTAGTACAATGCAT 1365  
 Qy |||||  
 1441 CCCAGAAATAAATGCCCTACATCCAAATCTGTCTCATCTCCCTCCCAAGGACAGAACTG 1500  
 Db |||||  
 1366 CCCAGAAATAAATGCCCTACATCCAAATCTGTCTCATCTCCCTCCCAAGGACAGAACTG 1425  
 Qy |||||  
 1501 AGGACAACTGGTGTCTTTGGCCATTTAGGGGGCGGCTTAGTAATGCGCAATAACAGGGGTG 1560  
 Db |||||  
 1426 AGGACAACTGGTGTCTTTGGCCATTTAGGGGGCGGCTTAGTAATGCGCAATAACAGGGGTG 1485  
 Qy |||||  
 1561 AGCTTACTATACACAGGTGCGCATCCAGAGGAGAAATTTCTTGGGAGATTTATATGTCC 1620  
 Db |||||  
 1486 AGCTTACTATACACAGGTGCGCATCCAGAGGAGAAATTTCTTGGGAGATTTATATGTCC 1545

1621 ATCAACAAGAGTGAAACCCAGGCTCCAGTCCAGATGAGTCTGAGGTGCTCTCTGAGTCTGAA 1680  
 Db |||||  
 1546 ATCAACAAGAGTGAAACCCAGGCTCCAGTCCAGTCCAGATGAGTCTCTGAGTCTGAA 1605  
 Qy |||||  
 1681 GTCACTGTGGTCTTCCAGACATGATCTCACCACCTCCCTTTGCAATTTGACCATCCGAC 1740  
 Db |||||  
 1606 GTCACTGTGGTCTTCCAGACATGATCTCACCACCTCCCTTTGCAATTTGACCATCCGAC 1665  
 Qy |||||  
 1741 TGTGAGATGTCTGAGTCTGAGCAATATCCATTTAAAGAGAGGACACAGCAGGCG 1800  
 Db |||||  
 1666 TGTGAGATGTCTGAGTCTGAGCAATTTGGAATATCCATTTAAAGAGAGGACACAGCAGGCG 1725  
 Qy |||||  
 1801 AAATGGAGGAGAGTGTCTGAGTGAAGTGAATCTACATCTCTTTGCAATTTGCAATTTGAG 1860  
 Db |||||  
 1726 AAATGGAGGAGAGTGTCTGAGTGAAGTGAATCTACATCTCTTTGCAATTTGAG 1785  
 Qy |||||  
 1861 CCCTTTGCGTGTCTGAGTGTCTCTGAGACAGCTTTTGGAGCTATGCGCTCACTGGAGGCCA 1920  
 Db |||||  
 1786 CCCTTTGCGTGTCTGAGTGTCTCTGAGACAGCTTTTGGAGCTATGCGCTCACTGGAGGCCA 1845  
 Qy |||||  
 1921 ATCAGACAGTGTGCGGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCAATGCTCTGTAAC 1980  
 Db |||||  
 1846 ATCAGACAGTGTGCGGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCAATGCTCTGTAAC 1905  
 Qy |||||  
 1981 TCCCTGGATTAACAATTGAGAGTGTCTGCTGTGGAACAATACCCCTTTGCAATTTGAGAA 2040  
 Db |||||  
 1906 TCCCTGGATTAACAATTGAGAGTGTCTGCTGTGGAACAATACCCCTTTGCAATTTGAGAA 1965  
 Qy |||||  
 2041 GTGGTTTTCAGATGAAGGCACTCAAGGTGACAGCTCTGGAAGAACCAAAATTTGCTGCAT 2100  
 Db |||||  
 1966 GTGGTTTTCAGATGAAGGCACTCAAGGTGACAGCTCTGGAAGAACCAAAATTTGCTGCAT 2025  
 Qy |||||  
 2101 TTCAAAGGGAATACCTTTAGTCTTTCAGATTTCTGCTCTTGTATTTCCCCCATTTCTCTGG 2160  
 Db |||||  
 2026 TTCAAAGGGAATACCTTTAGTCTTTCAGATTTCTGCTCTTGTATTTCCCCCATTTCTCTGG 2085  
 Qy |||||  
 2161 AGAATTAACCAATTCACCTGCTGCGAGAGTCCCGTCTCCCGGTGTGGTGTGAGTAAAC 2220  
 Db |||||  
 2086 AGAATTAACCAATTCACCTGCTGCGAGAGTCCCGTCTCCCGGTGTGGTGTGAGTAAAC 2145  
 Qy |||||  
 2221 CGGAGCCCTGCTGCTGCTGCTTCCCTGAGAGGTTATACGCCCACTACCAACCCAGCTG 2280  
 Db |||||  
 2146 CGGAGCCCTGCTGCTGCTGCTTCCCTGAGAGGTTATACGCCCACTACCAACCCAGCTG 2205  
 Qy |||||  
 2281 TCTGCAAAATTCGATTCGGAGCTCAAAGGCCATGAACAGATCCTTCAAGTGCAGACA 2340  
 Db |||||  
 2206 TCTGCAAAATTCGATTCGGAGCTCAAAGGCCATGAACAGATCCTTCAAGTGCAGACA 2265  
 Qy |||||  
 2341 TCAATCTTAGAGAGTGAACGAGAAACCATCTTTCTTCCGACAGAGGACAGCACTTTC 2400  
 Db |||||  
 2266 TCAATCTTAGAGAGTGAACGAGAAACCATCTTTCTTCCGACAGAGGACAGCACTTTC 2325  
 Qy |||||  
 2401 CTGTCAGACAGCTGGCCCAAGGCTTCAAATTTCCCTACTCTCATCAGAGCAGGATTTGT 2460  
 Db |||||  
 2326 CTGTCAGACAGCTGGCCCAAGGCTTCAAATTTCCCTACTCTCATCAGAGCAGGATTTGT 2385  
 Qy |||||  
 2461 GCTACATTTTATACCCCAATTCGCAAGGCAAGAGCTGSCAGATGTTAGCACAGAAAAAC 2520  
 Db |||||  
 2386 GCTACATTTTATACCCCAATTCGCAAGGCAAGAGCTGSCAGATGTTAGCACAGAAAAAC 2445  
 Qy |||||  
 2521 AGCATCAACAGGAATTTATTTCTATTTTCGCTACAAAGTAGGCCATCTGCTCATTTTG 2580  
 Db |||||  
 2446 AGCATCAACAGGAATTTATTTCTATTTTCGCTACAAAGTAGGCCATCTGCTCATTTTG 2505  
 Qy |||||  
 2581 AACCTGTGGAGAGCTGCTCATCAGATGATGTTGATCTTTGACTCTCCCTGCTGTGCCCTT 2640  
 Db |||||  
 2506 AACCTGTGGAGAGCTGCTCATCAGATGATGTTGATCTTTGACTCTCCCTGCTGTGCCCTT 2565  
 Qy |||||  
 2641 GAAGAGATTTGGGAGGACACACAGCAAACTCTCAAAATTTCCAGAAATTTCCAGCTTTGAGAA 2700  
 Db |||||  
 2566 GAAGAGATTTGGGAGGACACACAGCAAACTCTCAAAATTTCCAGAAATTTCCAGCTTTGAGAA 2625  
 Qy |||||  
 2701 GCGGACTTCACTACAGCAGGCAAAATGGAATCTCTAG 2736





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; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No: 7289994CB1
US-10-473-518-136

Query Match      83.6%; Score 2287; DB 18; Length 2979;
Best Local Similarity 91.3%; Pred. No. 0;
Matches 2560; Conservative 0; Mismatches 0; Indels 243; Gaps 3;

Qy 102 AGGAACATGACAATCGGAAGCCCTTCCCGAATCCATCCCATCAGCTCTCTGGGACACTGCC 161
Db 213 AGGAACATGACAATGCGGAAGCCCTTCCCGAATCCATCCCATCAGCTCTCTGGGACACTGCC 272
Qy 162 TCATTTTCATAGAGAGCCAGATGATGCTTATATATCAAGAGCAACCCCTATTGCACTCAG 221
Db 273 TCATTTTCATAGAGAGCCAGATGATGCTTATATATCAAGAGCAACCCCTATTGCACTCAG 332
Qy 222 GTGCAAAAGCAGGCGCAGCCATGCAAGATATCTTCAAATGCAACGGCAGATGGGTCCATCA 281
Db 333 GTGCAAAAGCAGGCGCAGCCATGCAAGATATCTTCAAATGCAACGGCAGATGGGTCCATCA 392
Qy 282 GAACGAGCAAGTCTCTCAAGAGACTCTGCGAGAGCTCAGGTTTGAAGGTCCGCGAAGT 341
Db 393 GAACGAGCAAGTCTCTCAAGAGACTCTGCGAGAGCTCAGGTTTGAAGGTCCGCGAAGT 452
Qy 342 GTTTCATCAATGTTACTTAGGCNAAGGTGGAGGACTTCATATGGGCCCGAGAGCACTATTGGTG 401
Db 453 GTTTCATCAATGTTACTTAGGCNAAGGTGGAGGACTTCATATGGGCCCGAGAGCACTATTGGTG 512
Qy 402 CCAGTGTGTGGCGTGGAGCCACCTGGGTACTCTCCAAGAGCAGGAAGGCCCTCTGTGGCGCAT 461
Db 513 CCAGTGTGTGGCGTGGAGCCACCTGGGTACTCTCCAAGAGCAGGAAGGCCCTCTGTGGCGCAT 572
Qy 462 AGCCTATTTACGGAAAAAATCTTTGAAACAAGACCCCAAGAGGAAGGAAGTCTCCCAATTGAAGG 521
Db 573 AGCCTATTTACGGAAAAAATCTTTGAAACAAGACCCCAAGAGGAAGGAAGTCTCCCAATTGAAGG 632
Qy 522 CATGATTTGTACTGCACTGCGGCCCCACAGAGGGAGTCCCTGCTGCGCAGGTGGAATGGCT 581
Db 633 CATGATTTGTACTGCACTGCGGCCCCACAGAGGGAGTCCCTGCTGCGCAGGTGGAATGGCT 692
Qy 582 GAAAAATGAAGAGGCCATTGACTCTGAAACAAGACGAGAAATTCAGACACCAAGGCGCTGACCA 641
Db 693 GAAAAATGAAGAGGCCATTGACTCTGAAACAAGACGAGAAATTCAGACACCAAGGCGCTGACCA 752
Qy 642 TAACCTGATCATCAGGACGCGCTCTCGGACTCAGGAAAATTCACCTGCAATGGCAGC 701
Db 753 TAACCTGATCATCAGGACGCGCTCTCGGACTCAGGAAAATTCACCTGCAATGGCAGC 812
Qy 702 CAACATCGTCGCTTAAGAGGAGAGCCCTGTGCGCCACTGTTGTGGTCTAC----- 750
Db 813 CAACATCGTCGCTTAAGAGGAGAGCCCTGTGCGCCACTGTTGTGGTCTAC----- 872
Qy 751 ----- 750
Db 873 CTGGTCTTCTCTGGACAGAGTGGTCAGCCTGCAATGTTTCGCTGTGGTAGAGGATGGCAGAA 932
Qy 751 ----- 750
Db 933 ACGTTCCCGGACCTGCACCAACCCAGCTCCTCTCAATGGTGGGGCCCTTTTGTGAGGGAAT 992
Qy 751 -----GTGGATGGGAGCTGGGAAGTGTG 773
Db 993 GTCAGTCGAGAAAATAACCTGCACCTTCTTTTGTCTGTGGATGGGAGCTGGGAAGTGTG 1052
Qy 774 GAGCGAATGGTCCGTCTGCAAGTGTGAACATTTTCGGATCCGGAGATGCAAGC 833
Db 1053 GAGCGAATGGTCCGTCTGCAAGTGTGAACATTTTCGGATCCGGAGATGCAAGC 1112
Qy 834 ACCACCCCGAGAAAATGGGGCGAAAATTTCTGTGAAGGTCTAAGCCAGGAATCTGAAAACCTG 893
Db 1113 ACCACCCCGAGAAAATGGGGCGAAAATTTCTGTGAAGGTCTAAGCCAGGAATCTGAAAACCTG 1172

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Qy	894	CACAGATGGCTTTTGGCATCTAGATAAAAAAACCCTCTTCATGAATAAAAAACCCCAAGCAT	953
Db	1173	CACAGATGGCTTTTGGCATCTAG	
Qy	954	TGAGAAATGCCAGCGACATATGCTTTTGTACTCGGGCTTTGGGTGCTGCCGTGCTGGCCGTTCG	1013
Db	1200	TGAGAAATGCCAGCGACATATGCTTTTGTACTCGGGCTTTGGGTGCTGCCGTGCTGGCCGTTCG	1259
Qy	1014	AGTCCTGGTCATTTGGTGTCAACCCCTTTACAGACGGAGCCAGAGTGACTATATGGCCGTGGAACGT	1073
Db	1260	AGTCCTGGTCATTTGGTGTCAACCCCTTTACAGACGGAGCCAGAGTGACTATATGGCCGTGGAACGT	1319
Qy	1074	CATTGACTCTTCTGCAATGACAGGTGGCTTCCAGAGCTTCAACTTTCAAAACAGTGCCTGCA	1133
Db	1320	CATTGACTCTTCTGCAATGACAGGTGGCTTCCAGAGCTTCAAACTTTCAAAACAGTGCCTGCA	1379
Qy	1134	AGCCAGAAATATCATGGAACTAATGATACAAAGAAATACTCTTTGGTAACTCCCTGGCTCCT	1193
Db	1380	A-----GGTAACTTCCCTGGCTCCT	1397
Qy	1194	GAATTTCTGCCATGCAGCCAGATCTGACAGTGAAGCCGGAACATACAGCGGACCCCATCTGTCT	1253
Db	1398	GAATTTCTGCCATGCAGCCAGATCTGACAGTGAAGCCGGAACATACAGCGGACCCCATCTGTCT	1457
Qy	1254	GCAGGACCTCTCTGGACAAGGAGCTCATGACAGAGTCTCTCACTTTTAAACCTTTTGTGCGA	1313
Db	1458	GCAGGACCTCTCTGGACAAGGAGCTCATGACAGAGTCTCTCACTTTTAAACCTTTTGTGCGA	1517
Qy	1314	CATCAAGTGAAGTCCAGAGCTCGTTTCATGGTTTTCCCTGGGAGTCTCTGAGAGAGCTGA	1373
Db	1518	CATCAAGTGAAGTCCAGAGCTCGTTTCATGGTTTTCCCTGGGAGTCTCTGAGAGAGCTGA	1577
Qy	1374	GTACACCGGCAAGAATCATTCACGAGCTTTTCCCATGGAACAAACACAGCTTTTAGTAC	1433
Db	1578	GTACACCGGCAAGAATCATTCACGAGCTTTTCCCATGGAACAAACACAGCTTTTAGTAC	1637
Qy	1434	AATGCATCCAGAAAATAAAATGCCCTACATCCAAAATCTGTCACTACTCCCCAAGGAC	1493
Db	1638	AATGCATCCAGAAAATAAAATGCCCTACATCCAAAATCTGTCACTACTCCCCAAGGAC	1697
Qy	1494	AGAACTGAGGACAACTGGTGTCTTTTGGCCATTTTAGGGGGCGCTTAGTAATGCCAATAC	1553
Db	1698	AGAACTGAGGACAACTGGTGTCTTTTGGCCATTTTAGGGGGCGCTTAGTAATGCCAATAC	1757
Qy	1554	AGGGTGAGCTTACTCATACCAACGGTGCATCCAGAGGAGAAATCTTTGGGAGATTTA	1613
Db	1758	AGGGTGAGCTTACTCATACCAACGGTGCATCCAGAGGAGAAATCTTTGGGAGATTTA	1817
Qy	1614	TATGTCCATCAACCAAGGTGAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAG	1673
Db	1818	TATGTCCATCAACCAAGGTGAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAG	1877
Qy	1674	TCTTGAAGTCACCTGTGGTCTCCAGACATGATCGTCAACCATCTCCCTTTGTCATTGACCAT	1733
Db	1878	TCTTGAAGTCACCTGTGGTCTCCAGACATGATCGTCAACCATCTCCCTTTGTCATTGACCAT	1937
Qy	1734	CCCGCACTGTGCAGATGTCACTGTGAGCATTTGGAATATCCATTTAAAGAGAGGACACA	1793
Db	1938	CCCGCACTGTGCAGATGTCACTGTGAGCATTTGGAATATCCATTTAAAGAGAGGACACA	1997
Qy	1794	GCAGGCAATGGAGGAAGTGAATGTCAGTGGGAAGATGAATCTACATCTCTGTTTACTGCTCT	1853
Db	1998	GCAGGCAATGGAGGAAGTGAATGTCAGTGGGAAGATGAATCTACATCTCTGTTTACTGCTCT	2057
Qy	1854	TTTTGGACCCCTTTGCGTGTCACTGTCTCTGGACAGCTTTGGGACCTATGCGCTCACTGG	1913
Db	2058	TTTTGGACCCCTTTGCGTGTCACTGTCTCTGGACAGCTTTGGGACCTATGCGCTCACTGG	2117
Qy	1914	AGAGCCAAATCACAGACTGTGTCCTGGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCAATGTC	1973
Db	2118	AGAGCCAAATCACAGACTGTGTCCTGGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCAATGTC	2177
Qy	1974	CTGTAACTCCCTGGATTTACAACTTTGAGAGTTTTACTGTGTGGACAATAACCCCTTTGTGCATTT	2033

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Db 2178 CTGTAACCTCCGATGATCACTTGAGAGTTACTGTGGACATACCCCTTGTCATT 2237
QY 2034 TCAGGAAGTGGTTTCAGATGAAGGATCAAGGTGGACAGCTCTCGGAAGAACCAAAATT 2093
Db 2238 TCAGGAAGTGGTTTCAGATGAAGGATCAAGGTGGACAGCTCTCGGAAGAACCAAAATT 2297
QY 2094 GCTGCAATTTCAAGGGAATACCTTTAGTCTTTCAGATTTCTGCTTGTATTTCCCCCAATT 2153
Db 2298 GCTGCAATTTCAAGGGAATACCTTTAGTCTTTCAGATTTCTGCTTGTATTTCCCCCAATT 2357
QY 2154 CCTCTGGAGAAATTAACCAATTCATCTGCCTGCGCAGGAAGTCCCGTCTCTCCCGGTGTGGTG 2213
Db 2358 CCTCTGGAGAAATTAACCAATTCATCTGCCTGCGCAGGAAGTCCCGTCTCTCCCGGTGTGGTG 2417
QY 2214 CAGTAACCGGACGCCCTGCATGTGCTTCTCCCTGGAGGCTTATACGCCCACTACAC 2273
Db 2418 CAGTAACCGGACGCCCTGCATGTGCTTCTCCCTGGAGGCTTATACGCCCACTACAC 2477
QY 2274 CCAGCTGTCTCCAAATCTGATTCGGCAGCTCAAGGCCATGAACAGATCTCCAAGT 2333
Db 2478 CCAGCTGTCTCCAAATCTGATTCGGCAGCTCAAGGCCATGAACAGATCTCCAAGT 2537
QY 2334 GCAGACATCAATCCTAGAGAGTGAACGAGAAACCAATCACTTTCTTCGCAAGAGGACAG 2393
Db 2538 GCAGACATCAATCCTAGAGAGTGAACGAGAAACCAATCACTTTCTTCGCAAGAGGACAG 2597
QY 2394 CACTTTCCCTGCACAGCTGGGCCCAAGCCTTCAAAATTCCTACTCCATCAGACAGCG 2453
Db 2598 CACTTTCCCTGCACAGCTGGGCCCAAGCCTTCAAAATTCCTACTCCATCAGACAGCG 2657
QY 2454 GATTTGCTGTACATTTGATATCCCAATGCAAGGCAAGGACTCGCAGATGTTAGCACA 2513
Db 2658 GATTTGCTGTACATTTGATATCCCAATGCAAGGCAAGGACTCGCAGATGTTAGCACA 2717
QY 2514 GAAAAACAGCATCAACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGT 2573
Db 2718 GAAAAACAGCATCAACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGT 2777
QY 2574 CATTTTGAACCTGTGGAGCTGTCATCAGCATGATGTTGATCTTGAATTCCTGCGCTG 2633
Db 2778 CATTTTGAACCTGTGGAGCTGTCATCAGCATGATGTTGATCTTGAATTCCTGCGCTG 2837
QY 2634 TGCCCTTGAAGAGATTTGGGAGGACACACAGAACTCTCAAAATTTCAAGATCCCAAGCT 2693
Db 2838 TGCCCTTGAAGAGATTTGGGAGGACACACAGAACTCTCAAAATTTCAAGATCCCAAGCT 2897
QY 2694 TGATGAAGCGACTTCAACTACAGCGGCAAAATGAGCTCTAG 2736
Db 2898 TGATGAAGCGACTTCAACTACAGCGGCAAAATGAGCTCTAG 2940

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RESULT 8

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US-10-872-681-55
; Sequence 55, Application US/10872681
; Publication No. US20050026251A1
; GENERAL INFORMATION:
; APPLICANT: ARES TRADING LIMITED
; TITLE OF INVENTION: TRANSMEMBRANE PROTEIN
; FILE REFERENCE: P029209W0
; CURRENT APPLICATION NUMBER: US/10/872,681
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: GB0130721.4
; PRIOR FILING DATE: 2001-12-21
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: SeqWin99, version 1.02
; SEQ ID NO 55
; LENGTH: 2868
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SEQ ID NO:33
US-10-872-681-55

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Query Match 83.5%; Score 2284; DB 19; Length 2868;
Best Local Similarity 91.3%; Pred. No. 0;
Matches 2557; Conservative 0; Mismatches 0; Indels 243; Gaps 3;
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Db 144 AGGAACCTGCAATGCGAAGCCCTTCCCGAATCCATCCCATCAGCTCTCTGGACACATGCC 203
QY 162 TCATTTCTAGAGGAGCCAGATGATGCTTATATATCAAGAGCAACCTTATTCACACTCAG 221
Db 204 TCATTTCTAGAGGAGCCAGATGATGCTTATATATCAAGAGCAACCTTATTCACACTCAG 263
QY 222 GTGCAAAACCGAGGCGCAGCATGCGATATTTCTTCAAAATGCAACCGCGAGTGGGTCCATCA 281
Db 264 GTGCAAAACCGAGGCGCAGCATGCGATATTTCTTCAAAATGCAACCGCGAGTGGGTCCATCA 323
QY 282 GAAACGAGCACGCTCTCTGAAGAGACTCTGGAAGAGAGCTCAGTTTGAAGGTCGCGAAGT 341
Db 324 GAAACGAGCACGCTCTCTGAAGAGACTCTGGAAGAGAGCTCAGTTTGAAGGTCGCGAAGT 383
QY 342 GTTTCATCAATGTTACTAGGCAACAGTGGAGGACTTCCATGGGCGCGAGGACTATTTGGTG 401
Db 384 GTTTCATCAATGTTACTAGGCAACAGTGGAGGACTTCCATGGGCGCGAGGACTATTTGGTG 443
QY 402 CCAGTGTGTGGCGTGGAGCCACCTGGGTACCTTCAAGAGCAGGAAGGCTCTGTGCGCAT 461
Db 444 CCAGTGTGTGGCGTGGAGCCACCTGGGTACCTTCAAGAGCAGGAAGGCTCTGTGCGCAT 503
QY 462 AGCCTATTTTACGAAAAAATTGAAACAGACCCACAGGAAGGGAAGTTCCCATTTGAGG 521
Db 504 AGCCTATTTTACGAAAAAATTGAAACAGACCCACAGGAAGGGAAGTTCCCATTTGAGG 563
QY 522 CATGATTTGTTACTGCTGCGCCACAGAGGAGTCCCTGTGCTGCGAGGTGGAATGGCT 581
Db 564 CATGATTTGTTACTGCTGCGCCACAGAGGAGTCCCTGTGCTGCGAGGTGGAATGGCT 623
QY 582 GAAAAATGAAGAGCCCATTTGACTTGAACAGAGCAGAAACATTTGACACAGGCGGTGACCA 641
Db 624 GAAAAATGAAGAGCCCATTTGACTTGAACAGAGCAGAAACATTTGACACAGGCGGTGACCA 683
QY 642 TAACTCTGATCATCAGGACGAGGCTCTCGGACTCAGGAATTTACCTGATGATGCGAGC 701
Db 684 TAACTCTGATCATCAGGACGAGGCTCTCGGACTCAGGAATTTACCTGATGATGCGAGC 743
QY 702 CAACATCTGTGGCTAAGAGAGGAGGCTCTGCGCCACTGTTGTGGTCTAC----- 750
Db 744 CAACATCTGTGGCTAAGAGAGGAGGCTCTGCGCCACTGTTGTGGTCTACCGTGAATGGAGG 803
QY 751 ----- 750
Db 804 CTGGTCTTCTCTGACAGAGTGGTCTGCTGCAATGTTCTGCTGTGTAGAGGATGGCAGAA 863
QY 751 ----- 750
Db 864 ACCTTCCCGGACCTGACCAACACCGAGCTCTCTCAATGTGGGGCCCTTTTGTGAGGGAAT 923
QY 751 -----GTGGATGGAGCTGGGAAGTGTG 773
Db 924 GTCAAGTGCAGAAAAATAACCTGCACCTTCTCTTTGCTCTGTTGGATGGAGCTGGGAAGTGTG 983
QY 774 GAGCGAATGGTCTGCTGAGTCCAGAGTGTGAACATTTCCCGATCCCGGAGTGGACAGC 833
Db 984 GAGCGAATGGTCTGCTGAGTCCAGAGTGTGAACATTTCCCGATCCCGGAGTGGACAGC 1043
QY 834 ACCACCCCGAGAAATGGGGGCAAAATTTCTGTGAAGGTCTAAGCCAGGAATCTGAAACTG 893
Db 1044 ACCACCCCGAGAAATGGGGGCAAAATTTCTGTGAAGGTCTAAGCCAGGAATCTGAAACTG 1103
QY 894 CACAGATGGTCTTTGATCCTAGATAAAAAA CCTTCTTCATGAATAAAAAA CCCCCCAAGCAT 953
Db 1104 CACAGATGGTCTTTGATCCTAG-----GCAT 1130

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QY 954 TGAGAAATGCCAGCGACATTCCTTGTACTCGGGCTTGGGTGCTGCCGTGCTGGCGCTTGC 1013  
DB 1131 TGAGAAATGCCAGCGACATTCCTTGTACTCGGGCTTGGGTGCTGCCGTGCTGGCGCTTGC 1190  
QY 1014 AGTCCCTGGTCAATGGTGTCAACCTTTTACAGACGGAGCCAGAGTGACTATATGGCGTGAACGT 1073  
DB 1191 AGTCCCTGGTCAATGGTGTCAACCTTTTACAGACGGAGCCAGAGTGACTATATGGCGTGAACGT 1250  
QY 1074 CATTTGACTCTTGTGCAATGTACAGGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCA 1133  
DB 1251 CATTTGACTCTTGTGCAATGTACAGGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCA 1310  
QY 1134 AGCCAAGAATATCATGGAATTAATGATACAGAAATATCTTTGGTAACTCCCTGCTCCT 1193  
DB 1311 A-----GGTAACTCCCTGCTCCT 1328  
QY 1194 GAATTTCTGCCAATGAGCAGATCTGACAGTGAGCCGACATACAGCGGACCCATCTGTCT 1253  
DB 1329 GAATTTCTGCCAATGAGCAGATCTGACAGTGAGCCGACATACAGCGGACCCATCTGTCT 1388  
QY 1254 GCAGGACCTCTCGGACAAAGAGTCTATGACAGAGTCTCTCACTCTTTAAACCTTTGCGGA 1313  
DB 1389 GCAGGACCTCTCGGACAAAGAGTCTATGACAGAGTCTCTCACTCTTTAAACCTTTGCGGA 1448  
QY 1314 CATCAAGTGAAGTCCAGAGCTCGTTCATGTTTCCCTGGGAGTCTCTGAGAGCTGA 1373  
DB 1449 CATCAAGTGAAGTCCAGAGCTCGTTCATGTTTCCCTGGGAGTCTCTGAGAGCTGA 1508  
QY 1374 GTACACGGCAAGAAATCATTTCCAGGACTTTTCCCATGGAAACAAACACAGCTTTAGTAC 1433  
DB 1509 GTACACGGCAAGAAATCATTTCCAGGACTTTTCCCATGGAAACAAACACAGCTTTAGTAC 1568  
QY 1434 AATGCATCCAGAAATAAATATGACCTATCCAAATCTGTCACTCTCCCAACAGGAC 1493  
DB 1569 AATGCATCCAGAAATAAATATGACCTATCCAAATCTGTCACTCTCCCAACAGGAC 1628  
QY 1494 AGAACTGAGACAACTGGTGTCTTTGGCCATTTAGGGGGCGCTTAGTAATGCCAATAC 1553  
DB 1629 AGAACTGAGACAACTGGTGTCTTTGGCCATTTAGGGGGCGCTTAGTAATGCCAATAC 1688  
QY 1554 AGGGGTGAGCTTACTCATACACACGGTGCCATCCAGAGAGAAATCTTTGGGAGATTGA 1613  
DB 1689 AGGGGTGAGCTTACTCATACACACGGTGCCATCCAGAGAGAAATCTTTGGGAGATTGA 1748  
QY 1614 TATGTCCATCAACCAAGGTGAACCCAGCTCCAGTCCAGTGGCTCTGAGGTGCTCTGAG 1673  
DB 1749 TATGTCCATCAACCAAGGTGAACCCAGCTCCAGTCCAGTGGCTCTGAGGTGCTCTGAG 1808  
QY 1674 TCTGAACTCACCTGGTCTCTCCAGACATGATCGTCACCACTCCCTTTGCAATGACCAT 1733  
DB 1809 TCTGAACTCACCTGGTCTCTCCAGACATGATCGTCACCACTCCCTTTGCAATGACCAT 1868  
QY 1734 CCGCACTGTGCAGATGTGAGTTCAGTTCAGCAATTTGGAATATCCATTTAAAGAAAGAGGACACA 1793  
DB 1869 CCGCACTGTGCAGATGTGAGTTCAGTTCAGCAATTTGGAATATCCATTTAAAGAAAGAGGACACA 1928  
QY 1794 GCAGGGCAAAATGGGAGGAAGTGTGTCAGTGGAGATGAATCTACATCTCTGTTACTGCTCT 1853  
DB 1929 GCAGGGCAAAATGGGAGGAAGTGTGTCAGTGGAGATGAATCTACATCTCTGTTACTGCTCT 1988  
QY 1854 TTTGGACCCCTTTGCGGTGATGTGCTCTGAGACAGCTTTGGGACCTATGCGCTCACTGG 1913  
DB 1989 TTTGGACCCCTTTGCGGTGATGTGCTCTGAGACAGCTTTGGGACCTATGCGCTCACTGG 2048  
QY 1914 AGAGCCAAATCACAGACTGCGGTGAAGCAACTGAAGTGGCGGTGCTTTGGCTGCAATGC 1973  
DB 2049 AGAGCCAAATCACAGACTGCGGTGAAGCAACTGAAGTGGCGGTGCTTTGGCTGCAATGC 2108  
QY 1974 CTGTAATCTCCCTGGATTACAACTTTGAGAGTTTACTGTGTGGACAAATACCCCTTTGTGCATT 2033  
DB 2109 CTGTAATCTCCCTGGATTACAACTTTGAGAGTTTACTGTGTGGACAAATACCCCTTTGTGCATT 2168  
QY 2034 TCAGGAAGTGGTTTCAGATGAAGGCAATCAAGGTGGACAGCTCTCTCGGAAGAACCAAAAT 2093

DB 2169 TCAGGAAGTGGTTTCAGATGAAGGCAATCAAGGTGGACAGCTCTCGGAAGAACCAAAAT 2228  
QY 2094 GCTGCATTTTCAAGGGGAATACCTTTTAGTCTTTCAGATTTCTGTCTTGATATTTCCCCCAAT 2153  
DB 2229 GCTGCATTTTCAAGGGGAATACCTTTTAGTCTTTCAGATTTCTGTCTTGATATTTCCCCCAAT 2288  
QY 2154 CCTCTGGAGAAATTAACCAATTCACCTGCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGT 2213  
DB 2289 CCTCTGGAGAAATTAACCAATTCACCTGCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGT 2348  
QY 2214 CAGTAACCGGACGCTCTGACCTGCTCTTCCCTGGAGCGTTATACGCCCACTACAC 2273  
DB 2349 CAGTAACCGGACGCTCTGACCTGCTCTTCCCTGGAGCGTTATACGCCCACTACAC 2408  
QY 2274 CCAAGTGTCTCTCAAAATCTGCAATTCGGCAGCTCAAGGGCCATGAACAGATCTCTCAAGT 2333  
DB 2409 CCAAGTGTCTCTCAAAATCTGCAATTCGGCAGCTCAAGGGCCATGAACAGATCTCTCAAGT 2468  
QY 2334 GCAGACATCAATCTTAGAGAGTGAAACGAGAAACCATCACTTTCTTCCGACAAAGAGGACAG 2393  
DB 2469 GCAGACATCAATCTTAGAGAGTGAAACGAGAAACCATCACTTTCTTCCGACAAAGAGGACAG 2528  
QY 2394 CACTTTCCCTGACAGACTGCGCCCAAGGCTTTCAAAATTTCCCTACTCTCCATCAGACAGCG 2453  
DB 2529 CACTTTCCCTGACAGACTGCGCCCAAGGCTTTCAAAATTTCCCTACTCTCCATCAGACAGCG 2588  
QY 2454 GATTTGTGTACTATTTGATACCCCAATGATCCCAAGGCAAGGACTGGCAGATGTTAGCACA 2513  
DB 2589 GATTTGTGTACTATTTGATACCCCAATGATCCCAAGGCAAGGACTGGCAGATGTTAGCACA 2648  
QY 2514 GAAAAACAGATCAACAGGAATTTATCTTATTTCCGCTACACAAAGTAGCCCATCTGCTGT 2573  
DB 2649 GAAAAACAGATCAACAGGAATTTATCTTATTTCCGCTACACAAAGTAGCCCATCTGCTGT 2708  
QY 2574 CATTTTGAACCTGTGGAGCTCGTCAATCAGCATGATGATGATCTTCACTCCCTGGCGCTG 2633  
DB 2709 CATTTTGAACCTGTGGAGCTCGTCAATCAGCATGATGATGATGATCTTCACTCCCTGGCGCTG 2768  
QY 2634 TGCCCTTGAAGAGATGGGAGGACACACAGAACTCTTCAAAATTTTCAAGATCCCAAGT 2693  
DB 2769 TGCCCTTGAAGAGATGGGAGGACACACAGAACTCTTCAAAATTTTCAAGATCCCAAGT 2828  
QY 2694 TGATGAAGCGGACTTCAACTACAGCGGCAAAATGNACTC 2733  
DB 2829 TGATGAAGCGGACTTCAACTACAGCGGCAAAATGNACTC 2868

## RESULT 9

US-10-094-886-115  
; Sequence 115, Application US/10094886  
; Publication No. US20040002120A1

## GENERAL INFORMATION:

; APPLICANT: Kkuda, Ramesh  
; APPLICANT: Tchernev, Velizar T.  
; APPLICANT: Liu, Xiaohong  
; APPLICANT: Spytek, Kimberly A.  
; APPLICANT: Patturajan, Meera  
; APPLICANT: Burgess, Catherine  
; APPLICANT: Vernet, Corine A.  
; APPLICANT: Li, Li  
; APPLICANT: Gorman, Linda  
; APPLICANT: Malyankar, Uriel M.  
; APPLICANT: Boldog, Ferenc  
; APPLICANT: Guo, Xiaojia  
; APPLICANT: Shenoy, Suresh  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Taupier, Raymond J., Jr.  
; APPLICANT: Miller, Charles  
; APPLICANT: Casman, Stacie  
; APPLICANT: Pena, Carol  
; APPLICANT: Gangolli, Esha  
; APPLICANT: Gusev, Vladimir





QY 1356 AGTGTCTGAGAGCTGAGTACCAACGCGAAGATCATTCAGGACTTTTCCCATGAAA 1415  
Db 1496 AGTGTCTGAGAGCTGAGTACCAACGCGAAGATCATTCAGGACTTTTCCCATGAAA 1555  
QY 1416 CAACACAGCTTTAGTACAAATGATCCAGAAATAAAATGCCCTTACATCCAAATCTGTC 1475  
Db 1556 CAACACAGCTTTAGTACAAATGATCCAGAAATAAAATGCCCTTACATCCAAATCTGTC 1515  
QY 1476 ATCACTCCCAAGGACAGAACTGAGGACAACTGAGTGTCTTTGGCCATTTAGGGGGGG 1535  
Db 1616 ATCACTCCCAAGGACAGAACTGAGGACAACTGAGTGTCTTTGGCCATTTAGGGGGGG 1675  
QY 1536 CTTAGTAATGCCAAATACAGGGGTGAGCTTACTATACACACAGGTGCCATCCAGGGA 1595  
Db 1676 CTTAGTAATGCCAAATACAGGGGTGAGCTTACTATACACACAGGTGCCATCCAGGGA 1735  
QY 1596 GAATTTCTTGGGAGATTTATATGTCCATCAACCAAGGTGAACCCAGCTCCAGTCAAGTGG 1655  
Db 1736 GAATTTCTTGGGAGATTTATATGTCCATCAACCAAGGTGAACCCAG-----GTCAATGG 1789  
QY 1656 CTCTGAGGTCTCTCTGAGTCTGAGTCACTGTGCTGCTTCCAGACATGATCTCAACCAC 1715  
Db 1790 CTCTGAGGTCTCTCTGAGTCTGAGTCACTGTGCTGCTTCCAGACATGATCTCAACCAC 1849  
QY 1716 TCCCTTTGCAATGACCATCCGCACTGTGCAGATGTCACTGAGCATTTGGATATCCA 1775  
Db 1850 TCCCTTTGCAATGACCATCCGCACTGTGCAGATGTCACTGAGCATTTGGATATCCA 1909  
QY 1776 TTTAAAGAGAGACACAGCAGGCGAAATGGGAGGAAGTATGTCACTGAGTGAAGATCAATC 1835  
Db 1910 TTTAAAGAGAGACACAGCAGGCGAAATGGGAGGAAGTATGTCACTGAGTGAAGATCAATC 1969  
QY 1836 TACATCTGTATCTGCTTTTGGACCCCTTTGGTGTGTCATGTCTCTCGACAGCTTTGG 1895  
Db 1970 TACATCTGTATCTGCTTTTGGACCCCTTTGGTGTGTCATGTCTCTCGACAGCTTTGG 2029  
QY 1896 GACCTATGCTCACTGGAGAGCAATCAAGAGTGTGCGGTGAAGCACTGAGTGGC 1955  
Db 2030 GACCTATGCTCACTGGAGAGCAATCAAGAGTGTGCGGTGAAGCACTGAGTGGC 2089  
QY 1956 GGTTTTGGCTGATGTCTGTAACTCCCTGGATTAACCTGAGAGTTTACTGTGTGA 2015  
Db 2090 GGTTTTGGCTGATGTCTGTAACTCCCTGGATTAACCTGAGAGTTTACTGTGTGA 2149  
QY 2016 CAATACCCCTTGTGCAATTCAGGAAGTGTGTTTCAAGTGAAGCATCAAGGTGCAAGCT 2075  
Db 2150 CAATACCCCTTGTGCAATTCAGGAAGTGTGTTTCAAGTGAAGCATCAAGGTGCAAGCT 2209  
QY 2076 CCTGGAAGAACCAAAATTTGCTGATTTCAAGGGAATACCTTTAGTCTTCAGATTTCTGT 2135  
Db 2210 CCTGGAAGAACCAAAATTTGCTGATTTCAAGGGAATACCTTTAGTCTTCAGATTTCTGT 2269  
QY 2136 CTTTGATATTTCCCCCATTTCTCTGGAGATTTAAACCATTCACGTCCCTGCGAGAGTCCC 2195  
Db 2270 CTTTGATATTTCCCCCATTTCTCTGGAGATTTAAACCATTCACGTCCCTGCGAGAGTCCC 2329  
QY 2196 GTTCTCCCGGTGTGTGCAATTAACCGGACGCCCTTGCATGTGCTTCTCCCTGGAGCG 2255  
Db 2330 GTTCTCCCGGTGTGTGCAATTAACCGGACGCCCTTGCATGTGCTTCTCCCTGGAGCG 2389  
QY 2256 TTATAGCCCACTACCAACCCAGCTGTCTGCAAAATCTGCAATTCGGCAGCTCAAGGCCA 2315  
Db 2390 TTATAGCCCACTACCAACCCAGCTGTCTGCAAAATCTGCAATTCGGCAGCTCAAGGCCA 2449  
QY 2316 TGAACAGATCTCTCAAGTGCAGACATCAATCTCTAGAGAGTGAACGAGAAACCATCACTTT 2375  
Db 2450 TGAACAGATCTCTCAAGTGCAGACATCAATCTCTAGAGAGTGAACGAGAAACCATCACTTT 2509  
QY 2376 CTTTCGACAAAGAGGACAGCACTTTTCCCTGCAAGACTGGCCCCAAAGCCCTTCAAAATTC 2435  
Db 2510 CTTTCGACAAAGAGGACAGCACTTTTCCCTGCAAGACTGGCCCCAAAGCCCTTCAAAATTC 2569  
QY 2436 CTACTCCATCAGACAGCGGATTTGTGTGCTACATTTGTATACCCCAATGCCAAAGGCAAGGA 2495

Db 2570 CTACTCCATCAGACAGCGATTTGTGTACATTTGATACCCCAATGCCAAAGGCAAGGA 2629  
QY 2496 CTGGCAGATGTTAGCACAGAAAAACAGCATCAAC---AGGAATTTATCTTTATTTGCTAC 2552  
Db 2630 CTGGCAGATGTTAGCACAGAAAAACAGCATCAACAGGAGGAATTTATCTTTGCTAC 2689  
QY 2553 ACAAGTAGCCCATCTGCTGTCTATTTTGAACCTGTGGGAAGCTCGTCATCAGCATGATGG 2612  
Db 2690 ACAAGTAGCCCATCTGCTGTCTATTTTGAACCTGTGGGAAGCTCGTCATCAGCATGATGG 2749  
QY 2613 TGATCTTTGACTCCTCGGCTGTGCTTGAAGAGATTGGGAGGACACACAGCAAACTCTC 2672  
Db 2750 TGATCTTTGACTCCTCGGCTGTGCTTGAAGAGATTGGGAGGACACACAGCAAACTCTC 2809  
QY 2673 AAACATTTCAGAAATCCAGCTTGATGAAGCCGACTTTCAACTACAGCAGGCAAAATGGACT 2732  
Db 2810 AAACATTTCAGAAATCCAGCTTGATGAAGCCGACTTTCAACTACAGCAGGCAAAATGGACT 2869  
QY 2733 CTAG 2736  
Db 2870 CTAG 2873

RESULT 10  
US-10-872-681-53  
; Sequence 53, Application US/10872681  
; Publication No. US20050026251A1  
; GENERAL INFORMATION:  
; APPLICANT: ARES TRADING LIMITED  
; TITLE OF INVENTION: TRANSMEMBRANE PROTEIN  
; FILE REFERENCE: P029209NO  
; CURRENT APPLICATION NUMBER: US/10/872,681  
; CURRENT FILING DATE: 2004-06-21  
; PRIOR APPLICATION NUMBER: GB0130721.4  
; PRIOR FILING DATE: 2001-12-21  
; NUMBER OF SEQ ID NOS: 56  
; SOFTWARE: SeqWin99, version 1.02  
; SEQ ID NO 53  
; LENGTH: 2661  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SEQ ID NO:31  
US-10-872-681-53

Query Match 81.1%; Score 2220; DB 19; Length 2661;  
Best Local Similarity 91.1%; Pred. No 0;  
Matches 2493; Conservative 0; Mismatches 0; Indels 243; Gaps 3;

QY 124 CTTCCGAAATCCATCCCATCAGCTCCTGGGACACTGCCTCATTTATAGAGGCCAGAT 183  
Db 1 CTTCCGAAATCCATCCCATCAGCTCCTGGGACACTGCCTCATTTATAGAGGCCAGAT 60  
QY 184 GATGCTTATATTATCAAGAGCAACCTTATGCACTCAGGTGCAAGGAGGCCAGCCATG 243  
Db 61 GATGCTTATATTATCAAGAGCAACCTTATGCACTCAGGTGCAAGGAGGCCAGCCATG 120  
QY 244 CAGATATTCTTCAATGCAACGCGAGTGGTCCATCAGAAACGAGACGCTCTCTGAAGAG 303  
Db 121 CAGATATTCTTCAATGCAACGCGAGTGGTCCATCAGAAACGAGACGCTCTCTGAAGAG 180  
QY 304 ACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGCGAAGTGTTCATCAATGTTACTAGGCAA 363  
Db 181 ACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGCGAAGTGTTCATCAATGTTACTAGGCAA 240  
QY 364 CAGGTGGAGGACTTCCATGGGCCGAGGACTATTGTCAGGCTGTGTGGGCTGGAGCCAC 423  
Db 241 CAGGTGGAGGACTTCCATGGGCCGAGGACTATTGTCAGGCTGTGTGGGCTGGAGCCAC 300  
QY 424 CTGGGTACCTCCAAGAGAGGAGGCTCTGTGCGCATAGCCTATTATACGGAACAACTTT 483  
Db 301 CTGGGTACCTCCAAGAGAGGAGGCTCTGTGCGCATAGCCTATTATACGGAACAACTTT 360





Qy	2254	CGTTATACGCCCACTACCA	CGCCAGCTGTCCTG	GAAAATCTGCATTCGGCAGCTCA	AAAGGC	2313
Db	1561	CGTTATACGCCCACTACCA	CGCCAGCTGTCCTG	GAAAATCTGCATTCGGCAGCTCA	AAAGGC	1620
Qy	2314	CATGAAACAGATCCTCCA	AGTCGACACATCAAT	CTCTAGAGAGTGAACGAGAAACCAT	CACCT	2373
Db	1621	CATGAAACAGATCCTCCA	AGTCGACACATCAAT	CTCTAGAGAGTGAACGAGAAACCAT	CACCT	1680
Qy	2374	TTCTTCGCACAAGAGGAC	GACACATTTCCCTG	CACAGACTGCGCCCAAGCCCTTCA	AAATTT	2433
Db	1681	TTCTTCGCACAAGAGGAC	GACACATTTCCCTG	CACAGACTGCGCCCAAGCCCTTCA	AAATTT	1740
Qy	2434	CCCTACTCCATCAGACAG	CGGATTTGTGCTACAT	TTGTATACCCCAATGCCAAAGGCAAG		2493
Db	1741	CCCTACTCCATCAGACAG	CGGATTTGTGCTACAT	TTGTATACCCCAATGCCAAAGGCAAG		1800
Qy	2494	GACTGGCAGATGTTTAG	CACAGAAAACAGCAT	CAACAGGAATTTATCTTTATTCGCTACA		2553
Db	1801	GACTGGCAGATGTTTAG	CACAGAAAACAGCAT	CAACAGGAATTTATCTTTATTCGCTACA		1860
Qy	2554	CAAAAGTAGCCCATCTG	CTGTCAATTTGAA	CGTGTGGAAAGCTCGTCATCAGCATGATGGT		2613
Db	1861	CAAAAGTAGCCCATCTG	CTGTCAATTTGAA	CGTGTGGAAAGCTCGTCATCAGCATGATGGT		1920
Qy	2614	GATCTTGACTCCCTGG	CGCTGTGCCCTTTGAGAGATTCGGGAGGACACACAGAACTCTCA		2673	
Db	1921	GATCTTGACTCCCTGG	CGCTGTGCCCTTTGAGAGATTCGGGAGGACACACAGAACTCTCA		1980	
Qy	2674	AACATTTCAGAATCCC	AGCTTGATGAAGCCGACTTTCAACTACAGCAGGCAAAATGGACTC		2733	
Db	1981	AACATTTCAGAATCCC	AGCTTGATGAAGCCGACTTTCAACTACAGCAGGCAAAATGGACTC		2040	
Qy	2734	TAG	2736			
Db	2041	TAG	2043			

## RESULT 12

```

US-10-798-721-27
; Sequence 27, Application US/10798721
; Publication No. US20040248166A1
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: Novel Human Membrane Proteins and Polynucleotides Encoding the Same
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/10/798,721
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US/09/969,532
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 2010
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-798-721-27

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QY	814	CGGATCCGGGAGTCCACAGCACACCCCGAGAAATGGGGCCAAATCTCTGGAAGTCTTA	873
DB	121	CGGATCCGGGAGTCCACAGCACACCCCGAGAAATGGGGCCAAATCTCTGGAAGTCTTA	180
QY	874	AGCCAGGAATCTGAAAACTGCACAGATGGTCTTTGGCATCTAGATAAAAAACCTCTTCAT	933
DB	181	AGCCAGGAACTGAAAACTGCACAGATGGTCTTTGGCATCTAG-----	223
QY	934	GAATAAACCACCAAGCATTTGAGAAATGCCAGCGACATCTCTTTGTACTCGGGCTTGGGT	993
DB	224	-----GCAATTGAAATGCCAGCGACATCTCTTTGTACTCGGGCTTGGGT	267
QY	994	GCTGCCGTCTGTGGCGGTTCAGTCTCTGGTCAATTTGGTGTCACTCTTTACAGACGGAGCCAG	1053
DB	268	GCTGCCGTCTGTGGCGGTTCAGTCTCTGGTCAATTTGGTGTCACTCTTTACAGACGGAGCCAG	327
QY	1054	AGTGACTATGGCGTGGAGCGTCAITTGACTCTTTCTGCATTTGACAGGTGGTCTCCAGACCTTC	1113
DB	328	AGTGACTATGGCGTGGAGCGTCAITTGACTCTTTCTGCATTTGACAGGTGGTCTCCAGACCTTC	387
QY	1114	AACTTCAAAACAGTCCGTCGAAGCCAGAAATATCATGAACTAATGATACAGGAAATATCC	1173
DB	388	AACTTCAAAACAGTCCGTCGAAGCCAGAAATATCATGAACTAATGATACAGGAAATATCC	447
QY	1174	TTTGGTAACCTCCCTGCTCCTGAATTTCTGCCATGCAGCCAGATCTGAAGTGAGCCGGACA	1233
DB	448	TTTGGTAACCTCCCTGCTCCTGAATTTCTGCCATGCAGCCAGATCTGAAGTGAGCCGGACA	507
QY	1234	TACAGCGGACCCATCTGTCTGAGGACCTCTCGGACMAAGAGTCTATGACAGAGTCTCTCA	1293
DB	508	TACAGCGGACCCATCTGTCTGAGGACCTCTCGGACMAAGAGTCTATGACAGAGTCTCTCA	567
QY	1294	CTCTTTAAACCTTTGTTCGGACATCAAAGTGAAGTCCAGAGTCTGTTCTATGTTTCCCTG	1353
DB	568	CTCTTTAAACCTTTGTTCGGACATCAAAGTGAAGTCCAGAGTCTGTTCTATGTTTCCCTG	627
QY	1354	GGAGTGTCTGAGAGCTGAGTACCAAGCAAGAAATCATTTCCAGGACTTTTCCCAATGGA	1413
DB	628	GGAGTGTCTGAGAGCTGAGTACCAAGCAAGAAATCATTTCCAGGACTTTTCCCAATGGA	687
QY	1414	AACAACACACAGTCTTAGTACAAGTGCATCCAGAAATAAATGCCCTATCATCCAAATCTG	1473
DB	688	AACAACACACAGTCTTAGTACAAGTGCATCCAGAAATAAATGCCCTATCATCCAAATCTG	747
QY	1474	TCATCACTCCCCACAAGGACAGAACTGAGGACAACTGGTGTCTTTGGCCATTTAGGGGG	1533
DB	748	TCATCACTCCCCACAAGGACAGAACTGAGGACAACTGGTGTCTTTGGCCATTTAGGGGG	807
QY	1534	CGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTATACCAACAGGTGCCATCCAGAG	1593
DB	808	CGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTATACCAACAGGTGCCATCCAGAG	867
QY	1594	GAGAAATTTGGGAGATTATATGTCTCATCAACCAAGGTGAAACCCAGCTCCAGTCAAGT	1653
DB	868	GAGAAATTTGGGAGATTATATGTCCATCAACCAAGGTGAAACCCAGCTCCAGTCAAGT	927
QY	1654	GGCTCTGAGGTGTCTCTGAGTCTCTGAAGTCACTGTGGTCTCTCCAGACATGATCGTCACC	1713
DB	928	GGCTCTGAGGTGTCTCTGAGTCTCTGAAGTCACTGTGGTCTCTCCAGACATGATCGTCACC	987
QY	1714	ACTCCCTTTGCATTTGACCATCCCGCACTGTGCAGATGTGAGTTCTGAGCATTCGGAATATC	1773
DB	988	ACTCCCTTTGCATTTGACCATCCCGCACTGTGCAGATGTGAGTTCTGAGCATTCGGAATATC	1047
QY	1774	CATTTAAAGAGGACACACAGCGGGCAAAATGGGAGGAAGTGAATGTCAGTGGAGATGAA	1833
DB	1048	CATTTAAAGAGGACACACAGCGGGCAAAATGGGAGGAAGTGAATGTCAGTGGAGATGAA	1107
QY	1834	TCTACATCTGTACTGCTCTTTGGACCCCTTTTGGTGTCACTGCTCTCTGGACAGCTTT	1893
DB	1108	TCTACATCTGTACTGCTCTTTTGGACCCCTTTTGGTGTCACTGCTCTCTGGACAGCTTT	1167
QY	1894	GGGACCTATCGGCTCACTGGAGAGCCAAATCACAGACTGTCCGCTGAAGCAACTGAAGGTG	1953

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1168 GGGACCTATGCGCTCACTGGAGAGCCAAATCACAGACTGTGCGGTGAAGCAACTGAAGGTG 1227
1954 GGGGTTTTGGGTGCACTGCTTAACCTCCCTGGATTACAACTTTGAGAGTTTACTGTGTG 2013
1228 GCGGTTTTGGGTGCACTGCTTAACCTCCCTGGATTACAACTTTGAGAGTTTACTGTGTG 1287
2014 GACAATACCCCTTGTGCACTTTCAAGAAAGTGGTTTCAAGATGAAGAGGATCAAGGTGACAG 2073
1288 GACAATACCCCTTGTGCACTTTCAAGAAAGTGGTTTCAAGATGAAGAGGATCAAGGTGACAG 1347
2074 CTCCTGGAAGAACCAAAATGCTGCAATTTCAAGAGGAATTAACCAATTCACTGCTGCCAGGATC 2133
1348 CTCCTGGAAGAACCAAAATGCTGCAATTTCAAGAGGAATTAACCAATTCACTGCTGCCAGGATC 1407
2134 GTCTTTGATATTTCCCTTCTGAGAAATTAACCAATTCACTGCTGCCAGGATC 2193
1408 GTCTTTGATATTTCCCTTCTGAGAAATTAACCAATTCACTGCTGCCAGGATC 1467
2194 CGTTTCTCCCGTGTGGTGAAGTAAACCGGAGCCCTGCACTGTGCTTCTCCCTGGAG 2253
1468 CGTTTCTCCCGTGTGGTGAAGTAAACCGGAGCCCTGCACTGTGCTTCTCCCTGGAG 1527
2254 CGTTATACGCCCACTACCAACCGGAGTGTCTGCAAAATCTGCAATTCGGAGCTCAAGGC 2313
1528 CGTTATACGCCCACTACCAACCGGAGTGTCTGCAAAATCTGCAATTCGGAGCTCAAGGC 1587
2314 CATGAACAGATCTCCAAAGTGACAGATCAATCTAGAGAGTGAACGAGAAACCATCACT 2373
1588 CATGAACAGATCTCCAAAGTGACAGATCAATCTAGAGAGTGAACGAGAAACCATCACT 1647
2374 TTCTTCCGCAAGAGAGCAGCACTTTCCCTGCAAGAGTGGCCCAAGGCTTCAAAAT 2433
1648 TTCTTCCGCAAGAGAGCAGCACTTTCCCTGCAAGAGTGGCCCAAGGCTTCAAAAT 1707
2434 CCTTACTCATCAGACAGCGGATTTGCTGATATTTGATATTCATCCCAATGCAAGGCAAG 2493
1708 CCTTACTCATCAGACAGCGGATTTGCTGATATTTGATATTCATCCCAATGCAAGGCAAG 1767
2494 GACTGCGAGATGTTAGCAGAAACACAGATCAACAGGAAATTTATCTTATTTGCTGCTACA 2553
1768 GACTGCGAGATGTTAGCAGAAACACAGATCAACAGGAAATTTATCTTATTTGCTGCTACA 1827
2554 CAAAGTAGCCATCTGCTGATTTGAACTGCGGAGTGGTGGAGTGGTGGAGTGGTGGAGTGGT 2613
1828 CAAAGTAGCCATCTGCTGATTTGAACTGCGGAGTGGTGGAGTGGTGGAGTGGTGGAGTGGT 1887
2614 GATCTTGACTCCCTGCGCTGCTGCTGATGAGAGATTTGGAGGAGACACACAGAACTCTCA 2673
1888 GATCTTGACTCCCTGCGCTGCTGCTGATGAGAGATTTGGAGGAGACACACAGAACTCTCA 1947
2674 AACATTTCAAGATCCAGCTTGTATGAGCGGACTTCAACTACAGCAGGCAAAATGGACTC 2733
1948 AACATTTCAAGATCCAGCTTGTATGAGCGGACTTCAACTACAGCAGGCAAAATGGACTC 2007
2734 TAG 2736
2008 TAG 2010

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RESULT 13

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US-10-798-721-29
; Sequence 29, Application US/10798721
; Publication No. US20040248166A1
; GENERAL INFORMATION:
; APPLICANT: Walk, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: Novel Human Membrane Proteins and Polynucleotides Encoding the Sa
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/10798,721
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US/09/969,532
; PRIOR FILING DATE: 2001-10-02

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; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 2001
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-798-721-29

Query Match          71.2%; Score 1949; DB 18; Length 2001;
Best Local Similarity 97.9%; Pred. No. 0;
Matches 2001; Conservative 0; Mismatches 0; Indels 42; Gaps 1;

QY 694 ATGGCAGCCAAATCGTGTGCTAAGAGGAGAGAGCTTCTGGCCCACTGTTGTGCTACGTTG 753
DB 1 ATGGCAGCCAAATCGTGTGCTAAGAGGAGAGAGCTTCTGGCCCACTGTTGTGCTACGTTG 60
QY 754 GATGGAGCTGGAGAGTGGAGCGGAATGGTCCGCTGCGAGTCCAGAGTGTGAACATTTG 813
DB 61 GATGGAGCTGGAGAGTGGAGCGGAATGGTCCGCTGCGAGTCCAGAGTGTGAACATTTG 120
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 ; Sequence 31, Application US/10798721  
 ; Publication No. US20040248166A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walke, D. Wade  
 ; APPLICANT: Scoville, John  
 ; TITLE OF INVENTION: Novel Human Membrane Proteins and Polynucleotides Encoding the S.  
 ; FILE REFERENCE: LEX-0244-USA  
 ; CURRENT APPLICATION NUMBER: US/10/798,721  
 ; CURRENT FILING DATE: 2004-03-11  
 ; PRIOR APPLICATION NUMBER: US/09/969,532  
 ; PRIOR FILING DATE: 2001-10-02  
 ; PRIOR APPLICATION NUMBER: US 60/237,280  
 ; PRIOR FILING DATE: 2000-10-02  
 ; NUMBER OF SEQ ID NOS: 33  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
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 ; LENGTH: 1968  
 ; TYPE: DNA  
 ; ORGANISM: homo sapiens  
 ; US-10-798-721-31  
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 Best Local Similarity 96.3%; Pred. No. 0;  
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; Publication No. US20040248166A1
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: Novel Human Membrane Proteins and Polynucleotides Encoding the
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/10/798,721
; CURRENT FILING DATE: 2004-03-11
; PRIOR APPLICATION NUMBER: US/09/969,532
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
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; LENGTH: 1734
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Best Local Similarity 100.0%; Pred. No. 0;

Matches 1640; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Job time : 1527 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: March 31, 2005, 20:54:14 ; Search time 11586 Seconds  
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11442.557 Million cell updates/sec

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Perfect score: 2736  
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Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : GenEmbl.\*

1: gb\_ba.\*  
2: gb\_hcg.\*  
3: gb\_in.\*  
4: gb\_om.\*  
5: gb\_ov.\*  
6: gb\_pat.\*  
7: gb\_ph.\*  
8: gb\_pl.\*  
9: gb\_pr.\*  
10: gb\_ro.\*  
11: gb\_st.\*  
12: gb\_sv.\*  
13: gb\_un.\*  
14: gb\_vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2462.4	90.0	3252	9	AY358147 Homo sapi
2	2365.2	86.4	7002	6	BD162193 Novel unc
3	2365.2	86.4	7002	9	AB055056 Homo sapi
4	2284	83.5	2868	6	AX800719 Sequence
5	2220	81.1	2661	6	AX800717 Sequence
6	1982.6	72.5	3925	10	MMU487854 Mus muscu
7	1599.8	58.5	2448	6	CQ841583 Sequence
8	1599.8	58.5	2448	9	AK122610 Homo sapi
9	641.6	23.5	2625	6	CQ721377 Sequence
10	638.4	23.3	2585	6	CQ842137 Sequence
11	638.4	23.3	2585	9	AK122615 Homo sapi
12	597	21.8	2860	6	AX686445 Sequence
13	592.2	21.6	2860	6	AX686447 Sequence
14	590.2	21.6	3933	6	CQ850929 Sequence
15	590.2	21.6	3933	9	AK128132 Homo sapi
16	590.2	21.6	3935	9	AB096256 Homo sapi
17	589	21.5	3770	9	AY126437 Homo sapi
18	588.6	21.5	3884	6	AR528525 Sequence
19	588.6	21.5	3884	6	AX464012 Sequence

20	588.6	21.5	3884	9	AY358351	AY358351 Homo sapi
21	572.4	20.9	2895	6	AX512281	AX512281 Sequence
22	569	20.8	3788	10	MMU487853	AJ487853 Mus muscu
23	564.8	20.6	3672	10	BC048162	BC048162 Mus muscu
24	564.8	20.6	3672	10	BC057560	BC057560 Mus muscu
25	563.2	20.6	2838	10	RNU87306	U87306 Rattus norv
26	554	20.2	2832	5	AY099459	AY099459 Xenopus l
27	544	19.9	2831	6	BD057526	BD057526 Netrin re
28	537	19.6	2995	6	AX497288	AX497288 Sequence
29	527.4	19.3	9328	10	AB118026	AB118026 Rattus no
30	520.6	19.0	2962	5	AY187310	AY187310 Gallus ga
31	519.2	19.0	3646	6	CQ881060	CQ881060 Sequence
32	519.2	19.0	3646	9	AF055634	AF055634 Homo sapi
33	518.4	18.9	9299	10	MMU72634	U72634 Mus musculu
34	493.4	18.0	3992	10	MMU487852	AJ487852 Mus muscu
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36	487	17.8	2697	6	AX268596	AX268596 Sequence
37	487	17.8	2697	10	RNU87305	U87305 Rattus norv
38	487	17.8	2752	6	AX449572	AX449572 Sequence
39	487	17.8	3014	6	BD057524	BD057524 Netrin re
40	474.4	17.3	2986	6	CQ881052	CQ881052 Sequence
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#### ALIGNMENTS

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LOCUS	Homo sapiens clone DNA219246 UNC5D (UNQ6012) mRNA, complete cds.				
DEFINITION	AY358147				
ACCESSION	AY358147.1	GI:37181401			
VERSION	FLI_CDNA.				
KEYWORDS	Homo sapiens (human)				
SOURCE	Homo sapiens				
ORGANISM	Homo sapiens				
REFERENCE	1 (bases 1 to 3252)				
AUTHORS	Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J., Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B., Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.E., Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S., Lee,J., Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C., Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V., Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieand,D., Woods,K., Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z., Goddard,A., Wood,W.I. and Godowski,P.				
TITLE	The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatics Assessment				
JOURNAL	Genome Res. 13 (10), 2265-2270 (2003)				
PUBLISHED	12975309				
REFERENCE	2 (bases 1 to 3252)				
AUTHORS	Clark,H.F.				
TITLE	Direct Submission				
JOURNAL	Submitted (01-AUG-2003) Department of Bioinformatics, Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080, USA				
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ORIGIN

Query Match 90.0%; Score 2462.4; DB 9; Length 3252;

Best Local Similarity 92.7%; Pred. No. 0;

Matches 2693; Conservative 0; Mismatches 1; Indels 210; Gaps 2;

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QY	61	CTGGGCTGTGCTTCTGGGCGGAGGAGCGCGGCTGCCGAGGAACTGACAAATGCGGAA	120
DB	389	CTGGGCTGTGCTTCTGGGCGGAGGAGCGCGGCTGCCGAGGAACTGACAAATGCGGAA	448
QY	121	GCCTTTCCGAAATCCATCCATCAGCTCTCTGGGACACTGCTCTCATTTATAGAGGACCA	180
DB	449	GCCTTTCCGAAATCCATCCATCAGCTCTCTGGGACACTGCTCTCATTTATAGAGGACCA	508
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DB	509	GATGATGCTTATATATCAAGAGCAACCTTATTTGCACTCAGGTGCAAGCGGCGCAGCC	568
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QY	361	CAACAGGTGAGGACTTCCATGGCCCGGAGGACTATTGGTCCAGTGTGGCGTGGAGC	420
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DB	749	CACCTGGGTACCTCCAAAGAGCAGGAAGGCTCTGTGCGCATAGCTTATTTACGGAAAAAC	808
QY	481	TTTGAAACAGACCCACAGGAAGGAGTTCCTCAATTAAGGCAATGATTGCTGCACTGC	540
DB	809	TTTGAAACAGACCCACAGGAAGGAGTTCCTCAATTAAGGCAATGATTGCTGCACTGC	868
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DB	1229	TGCATCTCTTTTCTCTGTTGGATGGGAGTGGGAAGTGTGAGCGAATGGTCCGCTCTGC	1288
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 Nakajima, D., Nakayama, M., Nagase, T. and Ohara, O.  
 Direct Submission  
 Submitted (25-JAN-2001) Daisuke Nakajima, Kazusa DNA Research  
 Institute, Laboratory for Genome Informatics, Yana, Kisarazu, Chiba  
 292-0812, Japan (E-mail: nakajima@kazusa.or.jp, Tel: 81438523915,  
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 REFERENCE  
 AUTHORS Fitzgerald,S.N., Fagan,R.J., Phelps,C.B., Power,C. and Yorke,M.  
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QY	2154	CCTCTGGAGAATTAACCAATTCAC	TGCTGCGCAGGAAGTCCGGTCTCCCGGTGTGGTG	2213
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QY	2334	GCAGACATCAATCCTTAGAGAGTGA	ACGAGAAACCATCTTTCTTCGCAACAGAGACAG	2393
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LOCUS	AX800717	2661 bp	DNA	linear PAT 13-OCT-2003
DEFINITION	Sequence 53 from Patent WO03055915.			
ACCESSION	AX800717			
VERSION	AX800717.1 GI:37653769			
KEYWORDS	Homo sapiens (human)			
SOURCE	Homo sapiens			
ORGANISM	Homo sapiens			
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
AUTHORS	Fitzgerald,S.N., Fagan,R.J., Phelps,C.B., Power,C. and Yorke,M.			
TITLE	Transmembrane protein			
JOURNAL	Patent: WO 03055915-A 53 10-JUL-2003;			
FEATURES	ARIS TRADING S.A. (CH)			
source	Location/Qualifiers			
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QY	184	GATGCTTATATTATCAAGAGCAACCTTATTGCACTCAGGTGCAAGAGCGGCGCCAGCATG		243

Db	61	GATGCTTATATTATCAAGAGCAACCTTATTGCACTCAGGTGCAAGAGCGGCGCCAGCATG	120
QY	244	CAGATATTTCTTCAAAATGCAACGGGAGTGGGTTCATCAGAAACGAGCAAGTCTCTGAGAG	303
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Db	181	ACTCTGACGAGAGCTCAGGTGTTGAAGTCCGGAGTGTTCATCAATGTTACTTAGGCAA	240
QY	364	CAGGTGAGAGACTTCCATGCGCCGAGGACTATTGTTGCGCAGTGTGTGGGTGAGCCAC	423
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QY	424	CTGGGTACTCTCAAGAGCAAGGAGGCTCTGTCGCGCATAGCTTATTTACGGAAAACTTT	483
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QY	484	GAAACAAGACCCACAAGGAGGAGGAGTCCCAATTGAAGGCATGATTGTACTGCACTGCGC	543
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Db	661	TCAGCTGCAATGTTGCTGTGGTAGAGGATGGCAGAAACGTTCCCGGACCTGCACCAAC	720
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DEFINITION Mus musculus mRNA for netrin receptor Unc5h4 (Unc5h4 gene).  
ACCESSION AJ487854  
VERSION AJ487854.1 GI:22080675  
KEYWORDS netrin receptor Unc5h4; Unc5h4 gene.  
SOURCE Mus musculus (house mouse)  
ORGANISM Mus musculus

REFERENCE 1  
AUTHORS Engelkamp, D.  
TITLE Cloning of three mouse unc-5 genes and their expression patterns at mid-gestation  
JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 3925)  
AUTHORS Engelkamp, D.  
TITLE Direct Submission  
JOURNAL Submitted (15-MAY-2002) Neuroanatomy, Max Planck Institute for Brain Research, Deutschordenstrasse 46, Frankfurt 60528, GERMANY  
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ORIGIN

Query Match		72.5%;	Score 1982.6;	DB 10;	Length 3925;
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Qy	663	ACGGCTCTCGACTCAGGAATATACACTGATGCGAGCCCAACATCGTGGCTAAGAGAG	722		
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Qy	1560	GAGCTTACTCATACCAAGTGGTCCATCCAGAGGAGAACTCTTGGAGATTTATATGTC	1619
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Db	2054	AATCAACCAAGGTGAACCCAGGCTCCAGTGCAGATGATCTGAGGTCTCTGAGTCTGGA	2113
Qy	1680	AGTCACTGTGGTCTTCCAGACATGATGTCACCACTCCCTTTGCAATGACCAATCCGCA	1739
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Db 2114 AGTCACCTGTGGGCTCCAGATATGCTTGTACAACTCCCTTTTGGCTGACCATCCCTCA 2173  
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RESULT 7  
CQ841583

LOCUS CQ841583 2448 bp DNA linear PAT 02-AUG-2004  
DEFINITION Sequence 230 from Patent EP1440981.  
ACCESSION CQ841583  
VERSION CQ841583.1 GI:50893370  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1  
AUTHORS Isogai,T., Sugiyama,T., Otsuki,T., Wakamatsu,A., Sato,H., Ishii,S.,  
Yamamoto,J., Isono,Y., Nagai,K. and Irie,R.  
TITLE Full-length human cdna  
JOURNAL Patent: EP 1440981-A 230 28-JUL-2004;  
Research Association for Biotechnology (JP)  
FEATURES  
Location/Qualifiers  
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Query Match 58.5%; Score 1599.8; DB 6; Length 2448;  
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Qy 1254 GCAGGACCCCTCTGGCAAGGAGCTCATGACAGAGTCTCTCACTCTTTAAACCTTTGTCGGA 1313  
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Qy 1374 GTACCAAGGCAAGATCAATTCAGGAGCTTTCCCATGGAACAAACACAGCTTTAGTAC 1433  
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VERSION      CQ842137.1  GI:50893924
KEYWORDS
SOURCE       Homo sapiens (human)
ORGANISM     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE    1
AUTHORS      Isogai,T., Sugiyama,T., Otsuki,T., Wakamatsu,A., Sato,H., Ishii,S.,
             Yamamoto,J., Isono,Y., Nagai,K. and Irie,K.
TITLE        Full-length human cdna
JOURNAL      Patent: EP 1440981-A 784 28-JUL-2004;
             Research Association for Biotechnology (JP)
FEATURES     Location/Qualifiers
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Query Match      23.3%; Score 638.4; DB 6; Length 2585;
Best Local Similarity 89.1%; Pred. No. 4.8e-165;
Matches 743; Conservative 0; Mismatches 16; Indels 75; Gaps 2;

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Db      298  CACTTCTTTGCTGTGGATGGAGCTGGGAAGTGTGGAGCAATGGTCCGTCTGCAG 357
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QY      795  TCCAGAGTGTGAACATTTGCGGATCCGGAGTGCACAGCACCAACCCCGAGAAATGGGG 854
          |||||
Db      358  TCCAGAGTGTGAACATTTGCGGATCCGGAGTGCACAGCACCAACCCCGAGAAATGGGG 417
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QY      855  CAAATTCGTGAAGTCTAAGCCAGGAATCTGAAAACTGCACAGATGGTCTTTGCAATCCT 914
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Db      418  CAAATTCGTGAAGTCTAAGCCAGGAATCTGAAAACTGCACAGATGGTCTTTGCAATCCT 477
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QY      915  AGATAAAAAACCTCTTCATGAATAAAACCCCAAGCATTGAGAATGCCAGCACCAATTGC 974
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Db      478  AG-----GATTTGAGAAATGCCAGCACCAATTGC 504
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QY      975  TTGTACTCGGGTTCGGTCTGCGTTCGGTTCGGTTCGGTTCGGTTCGGTTCGGTTCGGTTCGGT 1034
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Db      505  TTGTACTCGGGTTCGGTCTGCGTTCGGTTCGGTTCGGTTCGGTTCGGTTCGGTTCGGTTCGGT 564
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QY      1095  AGTGTGCTTCCAGACCTTCAACTTTCAAAACAGTCCGTCAAGCCAGCAAGAAATATCATGGA 1154
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Db      625  AGTGTGCTTCCAGACCTTCAACTTTCAAAACAGTCCGTCAA----- 664
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QY      1155  AATGATACAAGAAAAATCCTTTGGTAACTCCCTGCTCTCTGAAATTCGCCATGCAGCCAGA 1214
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Db      665  -----GGTAACTCCCTGCTCTCTGAAATTCGCCATGCAGCCAGA 702
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QY      1275  GCTCATGACAGAGTCTCACTCTTTAAACCTTTGTCGGACATCAAAAGTGAAGTCCAGAG 1334
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Db      763  GCTCATGACAGAGTCTCACTCTTTAAACCTTTGTCGGACATCAAAAGTGAAGTCCAGAG 822
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RESULT 11
LOCUS     AK122615
DEFINITION Homo sapiens cDNA FLJ16027 fis, clone FCBBF3012170, moderately similar to Mus musculus rostral cerebellar malformation protein (rcm) mRNA.
ACCESSION AK122615
VERSION   AK122615.1  GI:34527792
KEYWORDS  oligo capping; fis (full insert sequence).
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens

REFERENCE 1
AUTHORS   Ishibashi,T., Kanehori,K., Yosida,M., Watanabe,S., Ishida,S., Ono,Y., Hotuta,T., Hiraoka,S., Murakawa,K., Takiguchi,S., Kusano,J., Watanabe,M., Fujimori,K., Tanai,H., Ishida,M., Yamashita,H., Chiba,Y., Sugiyama,T., Irie,R., Otsuki,T., Sato,H., Ota,T., Wakamatsu,A., Ishii,S., Yamamoto,J., Isono,Y., Kawai-Hio,Y., Saito,K., Nishikawa,T., Kimura,K., Matsuo,K., Nakamura,Y., Sekine,M., Kikuchi,H., Kanda,K., Wagatsuma,M., Takahashi-Fujii,A., Oshima,A., Sugiyama,A., Kawakami,B., Suzuki,Y., Sugano,S., Nagahari,K., Masuho,Y., Nagai,K. and Isogai,T.
TITLE     NEDO human cDNA sequencing project
JOURNAL   Unpublished
REFERENCE 2 (bases 1 to 2585)
AUTHORS   Isogai,T. and Yamamoto,J.
TITLE     Direct Submission
JOURNAL   Submitted (15-JUL-2003) Takao Isogai, FLJ Project (HRI Team); 2-6-7 Kazusa-Kamatari, Kisarazu, Chiba 292-0818, Japan
           E-mail:genomics@hri.co.jp, Tel:81-438-52-3975, Fax:81-438-52-3986)
COMMENT   NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology (RAB); cDNA library construction: Helix Research Institute (HRI) (supported by Japan Key Technology Center etc.); 5'- & 3'-end one pass sequencing: RAB, Key and Biotechnology Center, National Institute of Technology and HRI, and Biotechnology Center, National Institute of Technology and Evaluation; clone selection for full insert sequencing: HRI and RAB; annotation: HRI and RAB.
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QY      735  CACTGTGTGGTCTACGTGGATCGGAGCTGGGAAGTGTGGAGCAATGGTCCGTCTGCAG 794
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QY      855  CAAATTCGTGAAGTCTAAGCCAGGAATCTGAAAACTGCACAGATGGTCTTTGCAATCCT 914
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Qy	1055	GTGACTATGGCGTGGAGCGTCAATAGACTCTTTCTGCAATTCAGAGGTGGCTTCCAGA-CCTTC	1113
Db	1193	CTCATGCGGTGGGGGTGGTGTATCCGCGCAACTGCCGTGACTTCGGACACAGACATC	1252
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Qy	1231	ACATACAGCGGACCCATCTGT---CTCAGGACCCCTCTGGAACAAGGAGCTCATGACAGAG	1287
Db	1373	ATCTACCGGAGCCCGTGTATCCCTTCAGGACTCCACCGACAAAAATCCCATGACCAAC	1432
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 Burgess, C.E., Casman, S.J., Spytek, K.A., Boldog, F.L., Li, L.,  
 Padigaru, M., Mishra, V., Patturajan, M., Shenoy, S., Rastelli, L.,  
 Tchernev, V.T., Vernet, C.A., Zerhusen, B.D., Malyankar, U.M., Guo, Y.,  
 Miller, C.E. and Gargolli, E.A.  
 Proteins and nucleic acids encoding same  
 Patent: WO 02057450-A 3 25-JUL-2002;  
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QY	73	TTCTGGCGCGCAGGAGCCGCGCTGCTCCGAGGAATGACAAATGGCGAAGCCCTTCCCGAA	132
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JOURNAL  
REFERENCE  
AUTHORS  
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JOURNAL

Unpublished  
2 (bases 1 to 3933)  
Isogai,T. and Yamamoto,J.  
Direct Submission  
Submitted (15-JUL-2003) Takao Isogai, FLJ Project (HRI Team); 2-6-7  
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(E-mail:genomics@hri.co.jp, Tel:81-438-52-3975, Fax:81-438-52-3986)  
NEDO human cDNA sequencing project supported by Ministry of  
Economy, Trade and Industry of Japan; cDNA full insert sequencing:  
Research Association for Biotechnology (RAB); cDNA library  
construction: Helix Research Institute (HRI) (supported by Japan  
Key Technology Center etc.); 5'- & 3'-end one pass sequencing: RAB,  
HRI, and Biotechnology Center, National Institute of Technology and  
Evaluation; clone selection for full insert sequencing: HRI and  
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RAB.

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/note="cloning vector: pME18SFL3"

ORIGIN

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LOCUS
DEFINITION Pan troglodytes HCM901 gene, VIRTUAL TRANSCRIPT, partial sequence,
ACCESSION AY401470
VERSION AY401470.1 GI:39757459
KEYWORDS GSS.
SOURCE Pan troglodytes (chimpanzee)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
REFERENCE
1 (bases 1 to 2507)
Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarawal,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,
Adams,M.D. and Cargill,M.
Inferring nonneutral evolution from human-chimp-mouse orthologous
gene trios
JOURNAL Science 302 (5652), 1960-1963 (2003)
PUBMED 14671302
REFERENCE
2 (bases 1 to 2507)
Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarawal,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,
Adams,M.D. and Cargill,M.
Direct Submission
Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES
Location/Qualifiers
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## RESULT 3

AY401471

LOCUS

DEFINITION

Mus musculus HCM901 gene, VIRUAL TRANSCRIPT, partial sequence,

genomic survey sequence.

ACCESSION

AY401471

VERSION

AY401471.1 GI:39757460

KEYWORDS

GSS.

SOURCE

ORGANISM

Mus musculus (house mouse)

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE

1 (bases 1 to 2775)

Clark, A.G., Gnanowski, S., Nielson, R., Thomas, P., Kejarawal, A.,

Todd, M.A., Tanenbaum, D.M., Civallo, D.R., Lu, F., Murphy, B.,

Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sniinsky, J.J.,

Adams, M.D. and Cargill, M.

Inferring nonneutral evolution from human-chimp-mouse orthologous

gene trios

Science 302 (5652), 1960-1963 (2003)

JOURNAL

PUBMED

14671302

2 (bases 1 to 2775)

Clark, A.G., Gnanowski, S., Nielson, R., Thomas, P., Kejarawal, A.,

Todd, M.A., Tanenbaum, D.M., Civallo, D.R., Lu, F., Murphy, B.,

Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sniinsky, J.J.,

Adams, M.D. and Cargill, M.

Direct Submission

Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,

Rockville, MD 20850, USA

This sequence was made by sequencing genomic exons and ordering

them based on alignment.

FEATURES

Location/Qualifiers

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CDS
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ORIGIN

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Query Match      20.7%; Score 565.8; DB 3; Length 3866;
Best Local Similarity 54.2%; Pred. No. 8.1e-154;
Matches 1541; Conservative 0; Mismatches 1057; Indels 243; Gaps 10;

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QY 85 GGGACCGCGCTGCCGAGGAACAGTGAATGGGAGCGCCCTTCCGNAATCCATCCCATCA 144
DB 483 CCGAGCGCTAGCAGCGCGTGAATCTGCTGGCCAGCGTGTCTCCAGACTCTTACCCTCAGCC 542
QY 145 GCTCCTGGGACACTGCTCTCATTTATAGAGGAGCGAGATGATGCTTATATATCAAGAGC 204
DB 543 CTTGGGAGCAGTGGCGTACTTCTTATTTGAGGCCACAGAGCGCTATCATAGAGAAC 602
QY 205 AACCTTATGCACTCAGGTGCAAGGAGCGGAGCCAGCCATGAGATATTTCTCAATGCAAC 264
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QY 265 GCGAGTGGGTCCATCAGACGAGCAGCTCTCTGAGAGAGACTCTGGACGAGAGCTCAGGT 324
DB 663 GCGAGTGGGTGAGCCAGAGTACACAGTCAACAGAGAGCGCTGGATGAGGCCACAGGC 722
QY 325 TTGAGGTCCGCAAGTGTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGG 384
DB 723 TTGGGGTGCAGAGTGCAGATCGAGTGTACGCGAGCAGATGAGGAGACTCTTCCGG 782
QY 385 CCCGAGGACTATTGGTCCAGTGTGTGGCGTGGAGCCACCTGGGTACTCTCAAGAGCAGG 444
DB 783 CTCGAGGACTACTGGTCCAGTGTGTGGCGTGGAGCTCTTCCGGAACCTACCAAGAGTCGC 842
QY 445 AAGCCCTCTGGCATAGCTTATTACGGAAGAACTTTGAACNAGACCCACAGGAGG 504
DB 843 CGAGCCTACATCCGCAATGCTACTTGGCGAAGAACTTTGACCGAGGAGCTCTGGCCAAAG 902
QY 505 GAAGTTTCCCATTAAGAGCATGATTGTACTGCACTGGCGGCCACACAGAGGAGTCCCTGCT 564
DB 903 GAGTACCCCTTGATCATGAGGTCTCTTCTGAGTGGCGGCCACCGGAGGAGTGCCTGTG 962

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QY 565 GCGGAGGTGGAATGGCTGAAAAAATGAAGAGCCCATTTGACTCTGTAACAGACGAGAAACATT 624
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QY 625 GACACACAGGCTGACCATTAACCTGATCATCAGCAGCGACGGCTCTCGGACTCAGGAAAT 684
DB 1023 CTGCTCACCATTTGACCAACCTCATCATCGCAGCGGGCGCTCTCAGACAGCGCCAC 1082
QY 685 TACACCTGATGAGCAGCCCAACATCGTGGCTTAAGAGAGAGAGCCCTGTGGCCACTGTTGTG 744
DB 1083 TACACCTGTGTGGCCAAAGAAATATCGTGGCCAAAGCGCGGAGCAGCGCGCCACAGTCATC 1142
QY 745 GTCTACCTGATGAGGAGCTGGGA----- 767
DB 1143 GTCTATGTGAATGAGGCTGGTCCAGCTGGGAGAGTGGTCACTCTGTTTCCAATCGCTGT 1202
QY 768 ----- 767
DB 1203 GGGCAGGCTGGCAGAAAGCGTACTCGGACCTGCACCAATCCAGCCCCACTCAATGGAGGC 1262
QY 768 ----- 767
DB 1263 GCCTTCTGTGAGGGACAGGCTTTCCAGACAGACAGCTTGGACACCGGTGTGCCCGAGTGGAT 1322
QY 768 -----AGTGTGGAGCGAATGGTCCGTCTGAGTCCAGAGTCCAGAGTGTGAACATTTCCGG 816
DB 1323 GAGAGCGTGGACCGAGTGGAGCAAGTGGTCTGCTCCGTCAGACACAGAGTGTGGCGCACTGGCGC 1382
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QY 1168 AATCTTTTGGTAACTCCCTGCTCCCTGAATTTCTGCGCATGCGAGCAGATCTGACAGTGAAG- 1226
DB 1713 -----AACCGGAGCTCTTGACCCCGTCCGCGCTCAGACCTTAAAGCGCAGT 1760
QY 1227 --CCGACATACAGCGGACCCCATCTGT---CTGACAGACCTCTGGHCAAGGAGCTCATG 1281
DB 1761 GCTGGCATCTACCGCGGCGCTGTGTATGCCCTGCAGGACTCCGCGGACAAAGATCCCATG 1820
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DB 1821 ACTAATTTGGCCCTTGTGGATCCCTGCCAGCTCAAGATCAAGGTCTATAAATCCAGC 1880
QY 1342 ATGGT-----TTCCCTGGGAGTGTCTGAGAGAGTGTGATACCAGCGCAAGAAATCATTC 1395
DB 1881 ACCATCGTCTTGGGTCTGGCTGTGAGGAGCGACCTGCTGGGTGTCTCTCCCGCG 1940
QY 1396 AGGACTTTTCCCATCGAAACCAACAGCTTTTAGTACAAATGTCATCCAGAAATAAATG 1455
DB 1941 GGCACGTACCCAGGCGATTTCTCCCGGACACCCATTTCTCTGCACTTGCAGTGGCGCAGC 2000

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QY 1516 TTTGGCCATTTAGGGGGCGCTTAGTAAATGCGCAAAATACAGGGGTGAGCTTACTCATCCA 1575  
Db TTTGGTTCCCTGGGAGGAGCTGAGCCTCCCGGACAGGGGTGAGCCTGTTGGTACCA 2120  
QY 1576 CACGGTGCCATCCAGAGGAGAAATCTTTGGGAGATTTATATGCTCATCAACCAAGGTGAA 1635  
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QY 1813 GTGATGTCAGTGAAGATGAATC-----TACATCTCTGTTACTGCTTTTGGACCCCTTT 1866  
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QY 1927 GACTGTGCCGTGAAGCACTGAAGTGGCGGTTTTTGGCTGTCATGCTCTGTAATCTCCCTG 1986  
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QY 2047 TCAGATGAAGGATCAAGGTGACAGCTCTCGAGAGACCAAAATGCTGCAATTTCAA 2106  
Db GAGCTGGAGAGGACTCTGGGTGGCTACTTGGTGGAGGAGCCCAAGCCTTTGCTTCTTAAG 2660  
QY 2107 GGAATACCTTTTACTGATTTCTGCTCTTGTATATTCCTCCATCTCTCTGCAAAAT 2166  
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QY 2167 AAACCAATCTAGCTGCGCAGGAGTCCCGTTCTCCCGGTGTGGTGCAGTAACCGGAG 2226  
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QY 2227 CCCTGCACTGTGCTTCTCCCTGGAGGTTATACGCCCACTACACCCAGCTGTCTGTC 2286  
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QY 2464 ACATTTGATACCCCAATGCCAAAGCAAGGACTGGCAGATGTTAGCACAGAAACAGC 2523  
Db AGCCTGGAGCCGCCCTCACTCCCGGGGCAACGACTGGAGGCTGTGTGGCGCAGAGCTGTC 3080  
QY 2524 ATCAACAGGAAATTTATTTCTTCTGCTACACAAAGTAGGCCATCTGCTCATTTTGAAC 2583

Db 3081 ATGGACCGGTACCTAAACTACTTTCGCCACCAAGCTAGTCCACAGGTGTCTATCTTAGAC 3140  
QY 2584 CTGTGGGAGAGCTCTGTCATGAGCATGATGATGATGATGATGATGATGATGATGATGATG 2643  
Db 3141 CTCTGGGAAAGCTCGGCAACAGAGTACGCGGAGCTCAACAGCCTGGCCAGTGCCTTGGAG 3200  
QY 2644 GAGATTGGGAGGACACACACAG 2664  
Db 3201 GAGATGGGCAAGAGTGAGATG 3221  
CD636011 532 bp mRNA linear EST 12-JAN-2004  
LOCUS 56033904H1 FLP Homo sapiens cdna, mRNA sequence.  
DEFINITION CD636011  
ACCESSION CD636011.1 GI:40284278  
VERSION EST.  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 532)  
AUTHORS Fu, G.K., Wang, J.T., Yang, J., Au-Young, J. and Stuve, L.L.  
TITLE Circular rapid amplification of cDNA ends for high-throughput  
extension cloning of partial genes  
JOURNAL Genomics 84 (1), 205-210 (2004)  
COMMENT Contact: Fu GK  
Incyte Genomics, Inc.  
3160 Porter Dr., Palo Alto, CA 94304, USA  
Tel: 6508454102  
Email: gfu@incyte.com  
FEATURES  
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Matches 530; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
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QY 1211 CAGATCTGACGTGAGCGGACATACAGGGACCCATCTGCTGAGGACCCCTCTGGACA 1270  
Db 61 CAGATCTGACGTGAGCGGACATACAGCGGACCCATCTGCTGAGGACCCCTCTGGACA 120  
QY 1271 AGGAGCTCATGACAGAGTCTCACTCTTTAACCCCTTTGCGGACATCAAAGTGAAGTCC 1330  
Db 121 AGGAGCTCATGACAGAGTCTCACTCTTTAACCCCTTTGCGGACATCAAAGTGAAGTCC 180  
QY 1331 AGAGCTCGTTCATGTTTCCCTGGGAGTGTCTGAGAGACTGATACCGGCAAGATC 1390  
Db 181 AGAGCTCGTTCATGTTTCCCTGGGAGTGTCTGAGAGACTGATACCGGCAAGATC 240  
QY 1391 ATTCCAGGACTTTTCCCATGGAACAAACACAGCTTTTAGTACAATGCAATCCAGAAATA 1450  
Db 241 ATTCCAGGACTTTTCCCATGGAACAAACACAGCTTTTAGTACAATGCAATCCAGAAATA 300  
QY 1451 AAATGCCCTTACATCCAAATCTGTCTCATCTCCCAAGGACAGAACTGAGGACAACTG 1510  
Db 301 AAATGCCCTTACATCCAAATCTGTCTCATCTCCCAAGGACAGAACTGAGGACAACTG 360  
QY 1511 GTGCTCTTTGGCCATTTAGGGGGCGCTTAGTAATCCAAATACAGGGGTGAGCTTACTCA 1570  
Db 361 GTGCTCTTTGGCCATTTAGGGGGCGCTTAGTAATCCAAATACAGGGGTGAGCTTACTCA 420

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QY 1571 TACCACAGGTGGCCATCCAGAGAGAAATCTTTGGGAGATTATATGTCATCAACCAAG 1630
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Db 421 TACCACAGGTGGCCATCCAGAGAGAAATCTTTGGGAGATTATATGTCATCAACCAAG 480
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QY 1631 GTGAACCCAGCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAG 1681
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Db 481 GTGAACCCAGCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAG 531
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RESULT 6
CD636014/c
LOCUS CD636014 596 bp mRNA linear EST 12-JAN-2004
DEFINITION 54033928J1 PLP Homo sapiens cDNA, mRNA sequence.
ACCESSION CD636014
VERSION CD636014.1 GI:40284281
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 596)
AUTHORS Fu, G.K., Wang, J.T., Yang, J., Au-Young, J. and Stuve, L.L.
TITLE Circular rapid amplification of cDNA ends for high-throughput
extension cloning of partial genes
JOURNAL Genomics 84 (1), 205-210 (2004)
COMMENT Contact: Fu GK
Incyte Genomics, Inc.
3160 Porter Dr., Palo Alto, CA 94304, USA
Tel: 6508454102
Email: gfu@incyte.com.
FEATURES
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Best Local Similarity 93.1%; Pred. No. 2e-143;
Matches 593; Conservative 0; Mismatches 1; Indels 43; Gaps 2;

QY 1046 GGAGCCAGAGTACTATGGGTGAGCGTCAATGATCTCTTCTGCAATTGACAGGTGGCTTCC 1105
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QY 1106 AGACCTTCAACTTCAAAACAGTCGTCAGCCCAAGATATCATGGAATCAATGATACAAG 1165
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Db 535 AGACCTTCAACTTCAAAACAGTCGTCAGCCCAAGATATCATGGAATCAATGATACAAG 507
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QY 1166 AAAAACTCTTTGGTAACTCCCTGCTCTGCTGAATCTGCGCATGCGAGCCAGATCTGACAGTGA 1225
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Db 506 -----GGTAACTCTCTGCTCTGCTGAATCTGCGCATGCGAGCCAGATCTGACAGTGA 458
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QY 1226 GCGGACATACAGCGGACCCATCTGCTGAGGACCTCTTGGACAAGAGCTCATGACAG 1285
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Db 457 GCGGACATACAGCGGACCCATCTGCTGAGGACCTCTTGGACAAGAGCTCATGACAG 398
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QY 1286 AGTCCTCAC-TCCTTAACTCTTTCGGACATCAAGTGAAGTCCAGAGCTCGTTTCATG 1344
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Db 397 AGTCCTCACGCTTTTAACTCTTTCGGACATCAAGTGAAGTCCAGAGCTCGTTTCATG 338
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QY 1345 GTTTCCTGGAGTGTCTGAGAGAGCTGAGTACCAAGGCAAGATCAATCCAGGACTTTT 1404
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Db 337 GTTTCCTGGAGTGTCTGAGAGAGCTGAGTACCAAGGCAAGATCAATCCAGGACTTTT 278
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QY 1405 CCCCATGGAACCAACCAAGCTTTTGTAGTCAATGATCCCAAGAAATAAAATGCCCTACATC 1464
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Db 277 CCCCATGGAACCAACCAAGCTTTTGTAGTCAATGATCCCAAGAAATAAAATGCCCTACATC 218
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QY 1465 CAAATCTGTCTATCACTCCCCCAAGAGCAGAACTGAGGACAACTGGTGTCTTTGGCCAT 1524
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Db 217 CAAATCTGTCACTCACTCCCCCAAGAGCAGAACTGAGGACAACTGGTGTCTTTGGCCAT 158
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Db 157 TTAGGGGGGGCGCTTAGTAATGCAAAATACAGGGGTGAGCTTACTCATACACAGGTGCC 98
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QY 1585 ATCCACAGAGGAGAAATCTTTGGGAGATTATATGTCATCAACCAAGGTGACCCAGCTC 1644
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Db 97 ATCCACAGAGGAGAAATCTTTGGGAGATTATATGTCATCAACCAAGGTGACCCAGCTC 38
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QY 1645 CAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAG 1681
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Db 37 CAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAG 1
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RESULT 7
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LOCUS CD636012 530 bp mRNA linear EST 12-JAN-2004
DEFINITION 56033904J1 PLP Homo sapiens cDNA, mRNA sequence.
ACCESSION CD636012
VERSION CD636012.1 GI:40284279
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 530)
AUTHORS Fu, G.K., Wang, J.T., Yang, J., Au-Young, J. and Stuve, L.L.
TITLE Circular rapid amplification of cDNA ends for high-throughput
extension cloning of partial genes
JOURNAL Genomics 84 (1), 205-210 (2004)
COMMENT Contact: Fu GK
Incyte Genomics, Inc.
3160 Porter Dr., Palo Alto, CA 94304, USA
Tel: 6508454102
Email: gfu@incyte.com.
FEATURES
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location/Qualifiers
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Query Match 18.9%; Score 517.4; DB 6; Length 530;
Best Local Similarity 99.6%; Pred. No. 6.5e-140;
Matches 529; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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Db 530 AACTAATGATACAGAAAAATCCTTTGGTAACTCCCTGCTCCTGAAATTCGCCATGCAAGC 471
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QY 1211 CAGATCTGACAGTGAGCGGACATACAGCGGACCCATCTGCTGCGAGACCTCTGAGACA 1270
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Db 470 CAGATCTGACAGTGAGCGGACATACAGCGGACCCATCTGCTGCGAGACCTCTGAGACA 411
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QY 1271 AGGAGCTCATGACAGAGTCTCTCACTCTTTAACTTTGTCGGACATCAAAAGTGAAGTCC 1330
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Db 410 AGGAGCTCATGACAGAGTCTCTCACTCTTTAACTTTGTCGGACATCAAAAGTGAAGTCC 351
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QY 1331 AGAGCTCGTTTCAGTTTCCCTGGAGTGTCTGAGAGAGTGTGATACACGGCAAGATC 1390
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QY 1391 ATTCCAGGACTTTTCCCATGGAACCAACACAGCTTTAGTACAACTCCCAAGAAATA 1450
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Db 291 ATTCCAGGACTTTTCCCATGGAACCAACACAGCTTTAGTACAACTCCCAAGAAATA 232
|||||
QY 1451 AAATGCCCTACATCCAAAATCTGTCTCACTCTCCCAAGGACAGAACTGAGGACAACTG 1510
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Db 231 AAATGCCCTACATCCAAAATCTGTCTCACTCTCCCAAGGACAGAACTGAGGACAACTG 172
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Qy	1294	CTCTTTAAACCCCTTTGTTCGGAC-ATCAAAAGTGAAGATCCAGAGCTCGTTTCATGTGTTTCCCT	1352
Db	1387	GACAAAATCCCAATATGACCAACTCTCCAAATCTTGGATCCACTGCGCCAACTGAAAAATCAAA	1446
Qy	1353	GGGAGTGTCTGAGAGAGCTGAGTACCAACGGCAAGAAATCATTTCCAGGACTTTTCCCCATGG	1412
Db	1447	GTGTACAACACCTCAGTGTCTGTCACCCCCCAAGATGACCTCTCTGAGTTTACGTCCAAG	1506
Qy	1413	AAACAAACACAGCTTTTAGTACAATGCAATGCCAGAAAATAAAATGCCCTACATCAACAAAATCT	1472
Db	1507	CTGTCCCTCAGATGACCAAGTCGTCTGTGTGGAGAAATGAAGCCCTCAGCCCTGAAAGAACCAAG	1566
Qy	1473	GTCAATCACTCCCCACAAGGCAGAACT--GAGGACAACTGGTGTCTTTGGCCATTTAGGG	1530
Db	1567	AGTCTAGCAAGGCAGACTGATGCCATCTGTATCCGCATTTGGCAGCTTCAACTCGCTGGGA	1626
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Qy	1591	GAGGAGAAATCTTGGGAGATTTATATGTCCATCAACCAAGGTGAACC---CAGCCTCCAG	1647
Db	1687	CAAGGAGAGCTACGAAATGTATGTGACTGTATACAGGAAAGAAAATATGAGGCCACACC	1746
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Db	1927	GAGAAAACTTTCACACCCCCCTGCTCATTTCACTCAGCTGATGCAGGGCCTGCCACATCCTC	1986
Qy	1882	CTGACACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAAATCAAGACTGTGCCGTGAAG	1941
Db	1987	ACAGAAACCTCAGCACTACGCCCTGGTAGGACATTTCCACCACAAGCGGCTGCGAAG	2046
Qy	1942	CAACTGAAGGTGGCGTTTTTGGCTGCAATGTCCTGTAACTCCCTCGAATTAACAATTGAGA	2001
Db	2047	CGCCTCAAGCTGGCCATCTTTGGGCCCCCTGTGCTGCTCTCGCTGGAGTACAGCATCCGA	2106
Qy	2002	GTTTTACTGTGGACAATACCCCTTGTGCAATTCAGGAGTGGTTTCAGATGAAGAGGCAT	2061
Db	2107	GTCTACTGTCTGGATGACACCAGGATGCCCTGAAGGAATTTTACATCTTTGAGAGACAG	2166
Qy	2062	CAAGGTGGACAGCTCTCTGGAGAAACCAAAATTTGCTGCAATTTCAAAGGGAATACCTTTAGT	2121
Db	2167	ATGGGAGGACAGCTCTTAGAAGAACCTTAAGGCTCTTCTATTTTAAAGCGAGCACCCACAAC	2226
Qy	2122	CTTCAGATTTCTGCTCTTGATATTTCCCCCAATTCCTCTGGAGAAATTAACCAATTCAGTGCC	2181
Db	2227	CTGGCCCTGTCAAATTCACGATATACGCCCATTTCCCTCTGGAGAGACAAATTTGCTGGCTAAA	2286
Qy	2182	TGCCAGGAAGTCCCGTTCTCCCGGTGTGTGCGTAGTAACCGGCAGCCCTGCACATGCGCC	2241
Db	2287	TATCAGGAAATTTCCATTTTACATGTTTGGAGTGGATCTCAAGAAACCTGCACATCGACC	2346
Qy	2242	TTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTCTGCAAAATCTCGAATTCGG	2301
Db	2347	TTCACTCTGGAAAGATTTAGCCTGAAACACAGTGGAGCTGTTTGTGCAAACTCTGTGTGCGG	2406
Qy	2302	CAGCTCAAGGCCCATGAACAGATCCTCCAGGTGCAGACATCAATCTCTAGAGATGAACGA	2361
Db	2407	CAGGTGGAAGGAGGAAGGCAGATCTTCAGCTCAACTGCACCGGTGTGAGAGAACTTACT	2466

QY	2362	GAACACATCACTTTCTTCGACACAGAGCAGACATTTTCCTCGACACAGCTGGCCCCAAA	2422
DB	2467	GGCATCGATTTGGCCGCTGCTGGATCTCTCGGACACACCATCACCGTGCAGCGGCCCGCGT	2526
QY	2422	GCCTTTCAAAATTTCCCTACTCCATCAGACAGCGGATTTGTGCTACATTTGATACCCCAAT	2481
DB	2577	GCTTTAGCATCCCTCTCCCTATCCGGCAGAAAGCTCTGTAGCAGCCTGGATGCCCCCCAG	2586
QY	2482	GCCAAAGGCAAGGACTGGCAGATGTTAGCAGACAGAAAAACAGCATCAACAGGAATTTATCT	2541
DB	2587	ACGAGAGGCCATGATCTGGAGGATGCTCGGCCCATTAAGCTGAACTCTGGACAGGTACTTGAAT	2646
QY	2542	TATTTGCTACACAAAGTAGCCCATCTGCTGTCTATTTTGAACCTGTGGGAAGCTCGTCAT	2601
DB	2647	TACTTTGCCACCAATCCAGCCCACTGGGTAATCTCTGGATCTTTGGGAAGCAGACAGAAC	2706
QY	2602	CAGCATGATGGTGTATCTTGACTCCCTGGCTGTGGCTTGAAGAGATTTGGAGGACACAC	2661
DB	2707	TTCCAGATGAAACCTCTGAGCATCTGGCAGCTCTTGGAGAAATGGGAAGACATGAA	2766
QY	2662	ACGAACTCTCAACATTTCCAGATCCAGCTTGA	2696
DB	2767	ACGTGGTGTCTCTTAGCAGCAGAGGCGCAGTATTA	2801
RESULT 9			
AY411747			
LOCUS	AY411747	2532 bp	DNA linear GSS 12-DEC-2003
DEFINITION	Homo sapiens HCM4327 gene, VIRTUAL TRANSCRIPT, partial sequence, genomic survey sequence.		
ACCESSION	AY411747		
VERSION	AY411747.1 GI:39767715		
KEYWORDS	GSS.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.		
AUTHORS	1 (bases 1 to 2532) Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarawal,A., Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B., Ferriera,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J., Adams,M.D. and Cargill,M.		
TITLE	Inferring nonneutral evolution from human-chimp-mouse orthologous gene trios		
JOURNAL	Science 302 (5652), 1960-1963 (2003)		
PUBMED	14671302		
REFERENCE	2 (bases 1 to 2532) Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarawal,A., Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B., Ferriera,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J., Adams,M.D. and Cargill,M.		
AUTHORS	Direct Submission		
TITLE	Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive, Rockville, MD 20850, USA		
JOURNAL	This sequence was made by sequencing genomic exons and ordering them based on alignment.		
COMMENT	Location/Qualifiers		
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SOURCE			
gene			
ORIGIN			
Query Match	18.0%	Score 491.6;	DB 9; Length 2532;
Best Local Similarity	54.5%;	Pred. No. 4.4e-132;	
Matches 1380;	Conservative	0; Mismatches 909;	Indels 243; Gaps 10;
QY	326	TGAGGTCCGGAAGTGTTCATCAATGTTACTAGCAACAGGTGGAGGACTTCATGGGC	385
DB	2	TGCGGGTTCGCGAGGTGCAGATTCAGAGTGTTCGCGCAGCAGGTGGAGAGCTCTTGGGC	61

QY 386 CCGAGGACTATGTGTCAGTGTGTGGGTGGAGCCACTTGGGTACTCTCAAGAGCAGGA 445  
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QY 446 AGGCTCTGTGCGCATAGACCTATTATCGGAAATTTTGAACAGAGCCACAGGAGGG 505  
Db 122 GAGCTTACGTCCGATCGCTTACTGTGCGAAGAACTTCGATCAGGAGCCCTCTGGGCAAG 181  
QY 506 AAGTTCCTATGAAGGCATGATTGTACTGTCACTGCCGCCCAACAGAGAGGAGTCCCTGTCTG 565  
Db 182 AGTGGCCCTGGACCATGAGGTCTCTGTGAGTGGCCGCCCGCGAGGGGTGCTGTGG 241  
QY 566 CCGAGGTGAATGTGCTGAAATAAGAGAGCCATTTGACTCTGAAACAGAGCAGAAATG 625  
Db 242 CCGAGGTGAATGTGCTCAAGAAATGAGATGTCTCGAACCCCAACAGGACACCAACTTC 301  
QY 626 ACACGAGGCTGACCAATAAATCTGATCATCAGGAGGACCGGCTCTCGGACTCAGGAAT 685  
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QY 686 ACACCTGCATGGCAGCCAAACATCGTGTCTAAGAGGAGAACCTGTGGCCACTGTTGTGG 745  
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QY 746 TCTACGTG----- 753  
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QY 754 ----- 753  
Db 482 GCCAGCTGGCAGAGCGCACCGGACCTGCACCAACCCCGTCTCACTCAACGGAGGG 541  
QY 754 -----GATG 757  
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QY 758 GGAGCTGGGAAGTGTGGAGGAATGTGCTGTGAGTCCAGAGTGCAGAGTGAACATTTGCGGA 817  
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QY 818 TCCGGAGTGCACAGCACCAACCCCGAGAAATGGGGCAATTCGTGAAGTCTAAGCC 877  
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QY 938 TAAACCCCAAGCATTGAGAAATGCCAGCGACATTTGTTGTACTCGGGCTTGGGTGCTG 997  
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QY 1052 AGAGTGAATATGGCTGGAGCTCAATTGAC---TCTTCTGCAATTGACAGGTGGCTTCCAGA 1108  
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QY 1109 CTTTCAACTTCAAAACAGTCCGCTCAGCCAGCAAGAAATATCATGGAACCTAATGATACAAGAA 1168  
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 genomic survey sequence.  
 ACCESSION AY406493  
 VERSION AY406493.1 GI:39762467  
 KEYWORDS GSS.  
 SOURCE Mus musculus (house mouse)  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
 1 (bases 1 to 2791)  
 REFERENCE Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,  
 Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,  
 Ferrera,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,  
 Adams,M.D. and Cargill,M.  
 AUTHORS Inferring nonneutral evolution from human-chimp-mouse orthologous  
 gene trios  
 JOURNAL Science 302 (5652), 1960-1963 (2003)  
 PUBMED 14671302  
 REFERENCE 2 (bases 1 to 2791)  
 AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,  
 Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,  
 Ferrera,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,  
 Adams,M.D. and Cargill,M.  
 TITLE Direct Submission  
 JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,  
 Rockville, MD 20850, USA  
 COMMENT This sequence was made by sequencing genomic exons and ordering  
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## ORIGIN

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Best Local Similarity 52.2%; Pred. No. 3e-127;  
Matches 1403; Conservative 0; Mismatches 1188; Indels 95; Gaps 12;

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Qy	207	CCCTATTGCACTCAGGTGCAAAAGCGAGGCGCAGCCATGTCGAGATATTTCTTCAAATGCAACGG	266
Db	231	GCCTGTGAACCTGTATTGTAAAGCCAGCGCTGCGCACCCAGATCTACTTCAAGTGCACAG	290
Qy	267	CGAGTGGGTCCATCAGAACGAGACAGCTCTCTGAAGAGACTCTCGGAGCGAGAGTCACGGTTT	326
Db	291	CGAGTGGGTTCATCAGAAGGACCACTAGTAGAGAGAGTAGATGAACCTCTCTGGTCT	350
Qy	327	GAAGGTCCGCGAAGTGTTCATCAATGTACTAGCGAACAGGTGGAGGACTTCCATGGGCC	386
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Qy	387	CGAGGACTATTGTTGTCGAGTGTGTGGTGAGGCCACTTGGGTACTTCCAAAGACGAGGAA	446
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Qy	447	GGCCTCTGTGCGCATAGCCCT-----ATTTCAGGAAAACTTTGAACAGAGCCACCAAGG	500
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Qy	501	AAGGGAAGTTCCCATTTGAAGGCATGATGTACTGCACTGCGGCCCCACGAGGGAGTCCC	560
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Qy	561	TGCTGCCGAGGTGGGAATGGCTGAAAAATGAAGAGCCCATTTGACTCTGAAACAAGACGAGAA	620
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 genomic survey sequence.

AY411749  
 AY411749.1 GI:39767717

ACCESSION  
 VERSION

KEYWORDS  
 SOURCE

ORGANISM  
 Mus musculus (house mouse)

REFERENCE  
 AUTHORS

1 (bases 1 to 2532)  
 Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejarival, A.,  
 Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B.,  
 Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J.,  
 Adams, M.D. and Cargill, M.

2 (bases 1 to 2532)  
 Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejarival, A.,  
 Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B.,  
 Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J.,  
 Adams, M.D. and Cargill, M.

TITLE  
 JOURNAL

PUBLISHED  
 REFERENCE

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VERSION AY411748.1 GI:39767716  
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Eukaryota; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Metatheria; Primates; Catarrhini; Hominidae; Pan.  
REFERENCE 1 (bases 1 to 2532)  
AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,  
Todd,M.A., Tanenbaum,D.M., Civallo,D.R., Lu,F., Murphy,B.,  
Ferrieres,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,  
Adams,M.D. and Cargill,M.  
TITLE Inferring nonneutral evolution from human-chimp-mouse orthologous  
gene trios  
JOURNAL Science 302 (5652), 1960-1963 (2003)  
PUBMED 14671302  
REFERENCE 2 (bases 1 to 2532)  
AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,  
Todd,M.A., Tanenbaum,D.M., Civallo,D.R., Lu,F., Murphy,B.,  
Ferrieres,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,  
Adams,M.D. and Cargill,M.  
TITLE Direct Submision  
JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,  
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ACCESSION BU447189

VERSION BU447189.1 GI:25936500

KEYWORDS EST.

SOURCE Gallus gallus (chicken)

ORGANISM Gallus gallus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Archosauria; Aves; Neognathae; Galliformes; Phasianidae;

Phasianinae; Gallus.

1 (bases 1 to 896)

Boardman, P.E., Sanz-Ezquerro, J., Overton, I.M., Burt, D.W., Bosch, E.,

Fong, W.T., Tickle, C., Brown, W.R.A., Wilson, S.A. and Hubbard, S.J.

A Comprehensive Collection of Chicken cDNAs

Curr. Biol. 12 (22), 1965-1969 (2002)

22335534

12445392

Contact: Simon Hubbard

Department of Biomolecular Sciences

University of Manchester Institute of Science and Technology

(UMIST)

PO Box 88, Manchester, M60 1QD, UK

Tel: 01612008930

Fax: 01612360409

Email: Simon.Hubbard@umist.ac.uk.

Location/Qualifiers

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methylated C in the first strand synthesis reaction.  
Following this first strand reaction, double-stranded cDNA  
was blunt-ended, ligated to NotI adapters, digested with  
EcoRI, size-selected, and cloned into the NotI and EcoRI  
compatible sites of a custom modified MCS of the  
pBluescript (KS+) vector. The library was normalized in 2  
rounds using conditions adapted from Soares et al., PNAS  
(1994) 91: 9228-9232 and Bonaldo et al., Genome Research 6  
(1996): 791, except that a significantly longer  
reannealing hybridization was used."

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

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Post-processing: Minimum Match 0%  
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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7	2365.2	86.4	7002	13	ADP56230 Human PRO
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9	2287	83.6	2979	10	ABX17909 cDNA enco
10	2284	83.5	2868	10	ADC77423 Human tra
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18	1640	59.9	1734	13	ADR44578 Novel hum
19	1599.8	58.5	2448	12	ADQ63069 Novel hum
20	1564	57.2	1701	13	ADR44580 Novel hum

21	1546	56.5	1692	13	ADR44582	ADR44582 Novel hum
22	1470	53.7	1859	13	ADR44584	ADR44584 Novel hum
23	947	34.6	1041	13	ADR44594	ADR44594 Novel hum
24	871	31.8	1008	13	ADR44596	ADR44596 Novel hum
25	867.8	31.7	2181	8	ABX70460	ABX70460 DNA enco
26	867.8	31.7	2181	12	ADL24072	ADL24072 Human NOV
27	853	31.2	999	13	ADR44598	ADR44598 Novel hum
28	777	28.4	966	13	ADR44600	ADR44600 Novel hum
29	638.4	23.3	2595	12	ADQ63623	ADQ63623 Novel hum
30	597	21.8	2860	6	ABT06279	ABT06279 Human NOV
31	592.2	21.6	2860	6	ABT06280	ABT06280 Human NOV
32	590.2	21.6	3933	13	ADR07892	ADR07892 Full leng
33	588.6	21.5	3884	4	AAE21316	AAE21316 Human CDN
34	588.6	21.5	3884	4	ACA03675	ACA03675 cDNA enco
35	588.6	21.5	3884	8	ABX89213	ABX89213 DNA enco
36	588.6	21.5	3884	8	ACD41867	ACD41867 Human sec
37	588.6	21.5	3884	8	ACA04096	ACA04096 Human CDN
38	588.6	21.5	3884	9	ADA45664	ADA45664 Novel hum
39	588.6	21.5	3884	9	ADA76095	ADA76095 Human PRO
40	588.6	21.5	3884	9	ADA18745	ADA18745 Human PRO
41	588.6	21.5	3884	9	ADA61368	ADA61368 Homo sapi
42	588.6	21.5	3884	9	ADB19153	ADB19153 Novel hum
43	588.6	21.5	3884	9	ADB27694	ADB27694 cDNA enco
44	588.6	21.5	3884	9	ADA86173	ADA86173 Novel hum
45	588.6	21.5	3884	9	ADB15737	ADB15737 Human PRO

## ALIGNMENTS

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ADR44586  
ID ADR44586 standard; cDNA; 2736 BP.  
XX  
AC ADR44586;  
XX  
DT 04-NOV-2004 (first entry)  
XX  
DE Novel human protein (NHP) encoding cDNA #5.  
XX  
KW Novel human protein; NHP; drug screening; clinical trial monitoring;  
KW cancer; arthritis; cosmetic application; cytostatic; virucidal;  
KW gene therapy; human; SNP; single nucleotide polymorphism; chromosome 8;  
KW gene; ss.  
XX  
OS Homo sapiens.  
XX  
FH Key  
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DR WPI; 2004-591302/57.  
DR P-PSDB; ADR44587.  
XX New isolated human proteins and nucleic acids, useful for diagnosing,  
PT drug screening, clinical trial monitoring, or treating diseases and  
PT disorders, e.g. treating cancer, arthritis, or as antiviral agents.  
XX  
PS Claim 1; SEQ ID NO 9; 52pp; English.  
XX  
CC The present invention provides novel human proteins (NHPs) and their  
CC encoding polynucleotides. The invention is useful for diagnosis, drug  
CC screening, clinical trial monitoring, treatment of diseases and disorders  
CC such as cancer and arthritis and cosmetic applications. The invention  
CC acts as a cytostatic and virucidal agent. The invention is useful in gene  
CC therapy. The present sequence is a novel human protein (NHP) encoding  
CC cDNA. The NHP encoding cDNA is located on human chromosome 8.  
XX  
SQ Sequence 2736 BP; 713 A; 715 C; 695 G; 613 T; 0 U; 0 Other;  
  
Query Match 100.0%; Score 2736; DB 13; Length 2736;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2736; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
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DB 1 ATGGGAGAGCGCGCGCCACCGCAGCGCGCGGAGGCGCGCGCTCGGCTCCCGTGG 60  
  
QY 61 CTGGGCTGTCTTCTGGGCGGAGGAGCGCGCGCTCGGCTCGGCTCGGCTCGGCTCGG 120  
DB 61 CTGGGCTGTCTTCTGGGCGGAGGAGCGCGCGCTCGGCTCGGCTCGGCTCGGCTCGG 120  
  
QY 121 GCCTTCCGGAATCCATCCATCAGCTCTCTGGGAGAGCTGCTCTATTTATAGAGGAGCCA 180  
DB 121 GCCTTCCGGAATCCATCCATCAGCTCTCTGGGAGAGCTGCTCTATTTATAGAGGAGCCA 180  
  
QY 181 GATGATGCTTATATATCAAGAGCAACCTTATTCATCTAGGTCGAAAGCGAGCGCC 240  
DB 181 GATGATGCTTATATCAAGAGCAACCTTATTCATCTAGGTCGAAAGCGAGCGCC 240  
  
QY 241 ATGCAGATATTTCTAAATCAACCGGAGTGGTCCATCAGACGACGCTCTCTGAA 300  
DB 241 ATGCAGATATTTCTAAATCAACCGGAGTGGTCCATCAGACGACGCTCTCTGAA 300  
  
QY 301 GAGACTCTGACGAGAGCTCAGGTTTGAAGCTCCGCGAGTGTTCATCAATGTTACTAGG 360  
DB 301 GAGACTCTGACGAGAGCTCAGGTTTGAAGCTCCGCGAGTGTTCATCAATGTTACTAGG 360  
  
QY 361 CAACAGGTGAGGACTTCCATGGGCCCGAGGACTATTTGGTCCAGTGTGGGCTGGAGC 420  
DB 361 CAACAGGTGAGGACTTCCATGGGCCCGAGGACTATTTGGTCCAGTGTGGGCTGGAGC 420  
  
QY 421 CACTGGGTACCTCCAGAGCAGGAGGCTCTGTGGCATAGCTATTTTACGGAAGAAC 480  
DB 421 CACTGGGTACCTCCAGAGCAGGAGGCTCTGTGGCATAGCTATTTTACGGAAGAAC 480  
  
QY 481 TTTGAAACAAGACCCACAAGGAGGAGTTCCCATTTGAAGGCGATGTTGTTCTCACTGC 540  
DB 481 TTTGAAACAAGACCCACAAGGAGGAGTTCCCATTTGAAGGCGATGTTGTTCTCACTGC 540  
  
QY 541 CGCCACAGAGGAGTCCCTGTGGGAGTGGAAATGGCTGAAATGAAGGCCCATTT 600  
DB 541 CGCCACAGAGGAGTCCCTGTGGGAGTGGAAATGGCTGAAATGAAGGCCCATTT 600  
  
QY 601 GACTCTGAACAAGACGAGAACATTGACACAGGCGCTGACCAATACCTGATCATCAGGCGAG 660  
DB 601 GACTCTGAACAAGACGAGAACATTGACACAGGCGCTGACCAATACCTGATCATCAGGCGAG 660  
  
QY 661 GCACGGCTCTCGGACTCAGGAAATTAACCTGCAATGGAGCCAAATCTGGCTTAAGAGG 720  
DB 661 GCACGGCTCTCGGACTCAGGAAATTAACCTGCAATGGAGCCAAATCTGGCTTAAGAGG 720  
  
QY 721 AGAGCCTGTGGGCACTGTTGCTCTACGTGATGGAGCTGGGAGTGTGGAGCGAA 780  
DB 721 AGAGCCTGTGGGCACTGTTGCTCTACGTGATGGAGCTGGGAGTGTGGAGCGAA 780

DB 721 AGAGCCTGTGGGCACTGTTGCTCTACGTGATGGAGCTGGGAGTGTGGAGCGAA 780  
QY 781 TGGTCCGCTCTCAGTCCAGAGTGTGAACATTTGGGATCCGGAGTGCACAGCACCACC 840  
DB 781 TGGTCCGCTCTCAGTCCAGAGTGTGAACATTTGGGATCCGGAGTGCACAGCACCACC 840  
QY 841 CCGAGAAATGGGCGCAAAATTTCTGTAAGGCTTAAGCCAGGAATCTGAAAATCTGCACAGAT 900  
DB 841 CCGAGAAATGGGCGCAAAATTTCTGTAAGGCTTAAGCCAGGAATCTGAAAATCTGCACAGAT 900  
QY 901 GGTCTTTCATCTAGATATAAAACCTTCTCATGAATAAAACCCCAAGCAATGAGAT 960  
DB 901 GGTCTTTCATCTAGATATAAAACCTTCTCATGAATAAAACCCCAAGCAATGAGAT 960  
QY 961 GCCAGCAGATTTGCTTCTGCTCGGCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1020  
DB 961 GCCAGCAGATTTGCTTCTGCTCGGCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1020  
QY 1021 GTCAATTTGCTCACCCCTTTACAGAGCGGAGCGAGTGTATGCGTGGAGCGTCAATGAC 1080  
DB 1021 GTCAATTTGCTCACCCCTTTACAGAGCGGAGCGAGTGTATGCGTGGAGCGTCAATGAC 1080  
QY 1081 TCTTCTGATTCAGAGTGGCTTCCAGACCTTCACTTCAAAACAGTCCGTCAGCCCAAG 1140  
DB 1081 TCTTCTGATTCAGAGTGGCTTCCAGACCTTCACTTCAAAACAGTCCGTCAGCCCAAG 1140  
QY 1141 AATATCATGGAACCTAATGATACAGAAAAATCTTTTGGTAACTCCCTGCTCTCTGAATTC 1200  
DB 1141 AATATCATGGAACCTAATGATACAGAAAAATCTTTTGGTAACTCCCTGCTCTCTGAATTC 1200  
QY 1201 GCCATGCGAGCGAGTCTGACAGTGGCGGAGCATACAGCGGAGCCATCTGTCTGAGGAC 1260  
DB 1201 GCCATGCGAGCGAGTCTGACAGTGGCGGAGCATACAGCGGAGCCATCTGTCTGAGGAC 1260  
QY 1261 CCTCTGCGACAGGAGCTCATGACAGTCTTCACTCTTTAAACCTTTTGGGACATCAAA 1320  
DB 1261 CCTCTGCGACAGGAGCTCATGACAGTCTTCACTCTTTAAACCTTTTGGGACATCAAA 1320  
QY 1321 GTGAAAGTCCAGAGTCTGTTCAATGTTTCCCTGGGAGTGTCTGAGAGCTGAGTACCAAC 1380  
DB 1321 GTGAAAGTCCAGAGTCTGTTCAATGTTTCCCTGGGAGTGTCTGAGAGCTGAGTACCAAC 1380  
QY 1381 GGCAGAAATCATTCAGAGTCTTCCCATGGAACCAACCAAGCTTTAGTACATGAT 1440  
DB 1381 GGCAGAAATCATTCAGAGTCTTCCCATGGAACCAACCAAGCTTTAGTACATGAT 1440  
QY 1441 CCCAGAAATATAATGCGCTTACATCAATAATCTGTCTCACTCCCAAGGAGCAGAACTG 1500  
DB 1441 CCCAGAAATATAATGCGCTTACATCAATAATCTGTCTCACTCCCAAGGAGCAGAACTG 1500  
QY 1501 AGGACAACTGGTGTCTTTGGCCATTTAGGGGGCGCTTGTAGTATGCAATACAGGGGTG 1560  
DB 1501 AGGACAACTGGTGTCTTTGGCCATTTAGGGGGCGCTTGTAGTATGCAATACAGGGGTG 1560  
QY 1561 AGCTTACTTATACCAAGCTGCTCCAGAGGAGTCTTGGGAGATTTATATGTC 1620  
DB 1561 AGCTTACTTATACCAAGCTGCTCCAGAGGAGTCTTGGGAGATTTATATGTC 1620  
QY 1621 ATCAACCAAGGAGTGAACCCAGCTCCAGTCCAGTCCAGTCCAGTCCAGTCCAGTCCAGT 1680  
DB 1621 ATCAACCAAGGAGTGAACCCAGCTCCAGTCCAGTCCAGTCCAGTCCAGTCCAGTCCAGT 1680  
QY 1681 GTCACTGTGGTCTCCAGACATGATCGTCCAGTCCCTTGGATGACCATCCCGCAC 1740  
DB 1681 GTCACTGTGGTCTCCAGACATGATCGTCCAGTCCCTTGGATGACCATCCCGCAC 1740  
QY 1741 TGTGAGAGTGTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAG 1800  
DB 1741 TGTGAGAGTGTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAG 1800  
QY 1801 AATATGGGAGGAGTGTGATGTCAGTGGAGATGATATCAATCTGCTGCTGCTGCTGCTGCTG 1860  
DB 1801 AATATGGGAGGAGTGTGATGTCAGTGGAGATGATATCAATCTGCTGCTGCTGCTGCTGCTG 1860

QY 1861 CCCTTTGCGTGCATGTGCTCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCA 1920  
 Db 1861 CCCTTTGCGTGCATGTGCTCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCA 1920  
 QY 1921 ATCAGACAGCTGTCGCGTGAAGCAACTGAAGTGGCGGTTTTTGGCTGCGATGCTCTGTAAC 1980  
 Db 1921 ATCAGACAGCTGTCGCGTGAAGCAACTGAAGTGGCGGTTTTTGGCTGCGATGCTCTGTAAC 1980  
 QY 1981 TCCTCGAATTACAACTTGAGAGTTTACTGTGTGGACAATAACCCCTTTGTGCATTTACAGAA 2040  
 Db 1981 TCCTCGAATTACAACTTGAGAGTTTACTGTGTGGACAATAACCCCTTTGTGCATTTACAGAA 2040  
 QY 2041 GTGGTTTCAGATGAAGGCATCAAGTGGACAGCTCTCTGGAAGAACCAAAATTTGCTGCAT 2100  
 Db 2041 GTGGTTTCAGATGAAGGCATCAAGTGGACAGCTCTCTGGAAGAACCAAAATTTGCTGCAT 2100  
 QY 2101 TTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGCTGATATTCCTCCCATTCCTCTGG 2160  
 Db 2101 TTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGCTGATATTCCTCCCATTCCTCTGG 2160  
 QY 2161 AGAATTAACCAATTCATCTGCTGCCAGGAAGTCCCGTTCTCCGCGTGTGGTGCAGTAAC 2220  
 Db 2161 AGAATTAACCAATTCATCTGCTGCCAGGAAGTCCCGTTCTCCGCGTGTGGTGCAGTAAC 2220  
 QY 2221 CGGACGCCCTGCACTGTGCTCTCTGCGAGGCTTATACGCCCACTACCAACCCAGCTG 2280  
 Db 2221 CGGACGCCCTGCACTGTGCTCTCTGCGAGGCTTATACGCCCACTACCAACCCAGCTG 2280  
 QY 2281 TCTGCAAAATTCGATTCGGCAGCTCAAGGCGATGAACAGATCTCTCCAAAGTGCAGACA 2340  
 Db 2281 TCTGCAAAATTCGATTCGGCAGCTCAAGGCGATGAACAGATCTCTCCAAAGTGCAGACA 2340  
 QY 2341 TCAATCCTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCAACAGAGGACAGCACTTTC 2400  
 Db 2341 TCAATCCTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCAACAGAGGACAGCACTTTC 2400  
 QY 2401 CTGTGACAGCTGGCCCCAAGCCTTCAAAATTCCTCTATCTCCATCAGACAGCGGATTTGT 2460  
 Db 2401 CTGTGACAGCTGGCCCCAAGCCTTCAAAATTCCTCTATCTCCATCAGACAGCGGATTTGT 2460  
 QY 2461 GCTACATTTGATACCCCAATGCAAGGCAAGGAGCTGGCAGATGTTAGCACAGAAAC 2520  
 Db 2461 GCTACATTTGATACCCCAATGCAAGGCAAGGAGCTGGCAGATGTTAGCACAGAAAC 2520  
 QY 2521 AGCATCAACAGGAATTTATCTTATTTTCGCTACAAAGTAGCCCATCTGCTGCTATTTG 2580  
 Db 2521 AGCATCAACAGGAATTTATCTTATTTTCGCTACAAAGTAGCCCATCTGCTGCTATTTG 2580  
 QY 2581 AACCTGTGGAGCTGCTATCAGCATGATGGTGTATCTTGAATCCCTGGCTGTGCCCTT 2640  
 Db 2581 AACCTGTGGAGCTGCTATCAGCATGATGGTGTATCTTGAATCCCTGGCTGTGCCCTT 2640  
 QY 2641 GAAGAGATTGGGAGGACACACAGAACTCTCAAAATTTTCAAGATCCCAAGCTTGATGA 2700  
 Db 2641 GAAGAGATTGGGAGGACACACAGAACTCTCAAAATTTTCAAGATCCCAAGCTTGATGA 2700  
 QY 2701 GCGGACTTCAACTACAGCAGGCAAAATGGACTCTAG 2736  
 Db 2701 GCGGACTTCAACTACAGCAGGCAAAATGGACTCTAG 2736

RESULT 2

ID ADR44610

XX ADR44610 standard; cDNA; 3411 BP.

AC ADR44610;

XX 04-NOV-2004 (first entry)

XX Novel human protein (NHP) encoding cDNA #17.

XX Novel human protein; NHP; drug screening; clinical trial monitoring;

KW cancer; arthritis; cosmetic application; cytostatic; virucidal;  
 KW gene therapy; human; SNP; single nucleotide polymorphism; chromosome 8;  
 XX gene; ss.

OS Homo sapiens.

PN US6777232-B1.

XX 17-AUG-2004.

XX 02-OCT-2001; 2001US-00969532.

XX 02-OCT-2000; 2000US-0237280P.

XX (LEXI-) LEXICON GENETICS INC.

XX Walke DW, Scoville J;

XX WPI; 2004-591302/57.

XX New isolated human proteins and nucleic acids, useful for diagnosing,  
 PT drug screening, clinical trial monitoring, or treating diseases and  
 PT disorders, e.g. treating cancer, arthritis, or as antiviral agents.

XX Disclosure; SEQ ID NO 33; 52pp; English.

XX The present invention provides novel human proteins (NHPs) and their  
 CC encoding polynucleotides. The invention is useful for diagnosis, drug  
 CC screening, clinical trial monitoring, treatment of diseases and disorders  
 CC such as cancer and arthritis and cosmetic applications. The invention  
 CC acts as a cytostatic and virucidal agent. The invention is useful in gene  
 CC therapy. The present sequence is a novel human protein (NHP) encoding  
 CC cDNA. The NHP encoding cDNA is located on human chromosome 8.

XX Sequence 3411 BP; 902 A; 858 C; 866 G; 785 T; 0 U; 0 Other;

Query Match 100.0%; Score 2736; DB 13; Length 3411;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2736; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGGAGAGCGCGCGCCACCGCAGCGCGCGGAGGCGCGCGCTGCCCTCCCGTGG 60

Db 115 ATGGGAGAGCGCGCGCCACCGCAGCGCGCGGAGGCGCGCGCTGCCCTCCCGTGG 174

QY 61 CTGGGCTGTGCTTCTGGCGGAGGAGCGCGGCTGCCGAGGAACTGCAATGGCGAA 120

Db 175 CTGGGCTGTGCTTCTGGCGGAGGAGCGCGGCTGCCGAGGAACTGCAATGGCGAA 234

QY 121 GCGCTTCCGGAATCCATCCATCAGCTCTGGGACACTGCTCATTTCTAGAGGAGCCA 180

Db 235 GCGCTTCCGGAATCCATCCATCAGCTCTGGGACACTGCTCATTTCTAGAGGAGCCA 294

QY 181 GATGATGCTTATATTAATCAAGAGCAACCTTATGCACTCAGGTGCAAGCGAGCCAGCC 240

Db 295 GATGATGCTTATATTAATCAAGAGCAACCTTATGCACTCAGGTGCAAGCGAGCCAGCC 354

QY 241 ATGCAGATATTTCTAAATGCAACGCGGAGTGGTCCATCAGAACGAGCAGCTCTGAA 300

Db 355 ATGCAGATATTTCTAAATGCAACGCGGAGTGGTCCATCAGAACGAGCAGCTCTGAA 414

QY 301 GAGACTCTGAGCGAGAGCTCAGGTTTGAAGGTCGCGAGTGTTCATCATGTTACTAGG 360

Db 415 GAGACTCTGAGCGAGAGCTCAGGTTTGAAGGTCGCGAGTGTTCATCATGTTACTAGG 474

QY 361 CAACAGTGGAGGACTTCCATGGGCGCGAGGACTATTGGTCCAGTGTGTGGCGTGGAGC 420

Db 475 CAACAGTGGAGGACTTCCATGGGCGCGAGGACTATTGGTCCAGTGTGTGGCGTGGAGC 534

QY 421 CACCTGGTACCTCCAAAGAGCAGAAAGGCTCTGTGCGCATAGCCTATTATCGGAAAAAC 480

Db 535 CACCTGGTACCTCCAAAGAGCAGAAAGGCTCTGTGCGCATAGCCTATTATCGGAAAAAC 594

QY 481 TTTGAACAAGACCCACAGAGAGGAAAGTTCCCATTTGAAGGCATGATTGCTGCTGCTGC 540

Db	595	TTTTGAAACAAGACCCACACAGGAAAGGAAAGTTCCCATTTGAAGGCATGATTTGCTACCTGCCTGC	654	1675	AGCTTACTCATACACACACGCGTGCCATCCGACAGAGAGAAATTTCTTGGGAGATTTATATATGTC	1734
Qy	541	CGCCACACAGAGGAGTCCCTGCTGCCGAGGTGGAATGGCTGAAATAAGAGAGCCCAATT	600	1621	ATCAACCAAGGTGAACCCAGCCTCCAGTCAGATGGCTCTCAGGTGCTCCTCAGTCTCTGAA	1680
Db	655	CGCCCAACAGAGGAGTCCCTGCTGCCGAGGTGGAATGGCTGAAATAAGAGAGCCCAATT	714	1735	ATCAACCAAGGTGAACCCAGCCTCCAGTCAGATGGCTCTCAGGTGCTCCTCAGTCTCTGAA	1794
Qy	601	GACTCTGAACAAGACGAGAACATTTGACACAGGGCTGACATAAACCCTGATCATCAGGCAG	660	1681	GTCACTGTGTGCTCTCAGACATGATCGTCACCACTCCCTTTTGCAATTTGACATCCCGAC	1740
Db	715	GACTCTGAACAAGACGAGAACATTTGACACAGGGCTGACATAAACCCTGATCATCAGGCAG	774	1795	GTCACTGTGTGCTCTCAGACATGATCGTCACCACTCCCTTTTGCAATTTGACATCCCGAC	1854
Qy	661	GCACGGCTCTCGACTCAGGAATTTACCTCATCGCAGGACCAACATCTGTGCTAAGAGG	720	1741	TGTGAGATGTCAGTCTGTAGCATTTGGAATATCCATTTAAAGAGAGGACACACAGGCG	1800
Db	775	GCACGGCTCTCGACTCAGGAATTTACCTCATCGCAGGACCAACATCTGTGCTAAGAGG	834	1855	TGTGAGATGTCAGTCTGTAGCATTTGGAATATCCATTTAAAGAGAGGACACACAGGCG	1914
Qy	721	AGAAGCTGTGCGCCCACTGTTGTGGTCTACGTGGATGGGAGCTGGGAAGTGTGGAGCGAA	780	1801	AAATGGGAGGAAGTGTGTAGTGAAGATGAATCTACATCTCTGTACTGCTTTTGGAC	1860
Db	835	AGAAGCTGTGCGCCCACTGTTGTGGTCTACGTGGATGGGAGCTGGGAAGTGTGGAGCGAA	894	1915	AAATGGGAGGAAGTGTGTAGTGAAGATGAATCTACATCTCTGTACTGCTTTTGGAC	1974
Qy	781	TGTCGGTCTGACAGTGTGAACATTTTCCGATCCGGAGTGCACAGCACCC	840	1861	CCCTTTGCGTCAATGTCTCTGACAGCTTTTGGACCTATGCGCTCCTCTGGAGAGCCA	1920
Db	895	TGTCGGTCTGACAGTGTGAACATTTTCCGATCCGGAGTGCACAGCACCC	954	1975	CCCTTTGCGTCAATGTCTCTGACAGCTTTTGGACCTATGCGCTCCTCTGGAGAGCCA	2034
Qy	841	CCGAGAAATGGGGCAAAATTTCTGTGAAGTCTAAGCCAGGAATCTGAAAACCTGCACAGAT	900	1921	ATCAGAGACTGTGCGGTGAAGCAACTGAAGTGGCGGTTTTTGGCTGCATGCTCTGTAAC	1980
Db	955	CCGAGAAATGGGGCAAAATTTCTGTGAAGTCTAAGCCAGGAATCTGAAAACCTGCACAGAT	1014	2035	ATCAGAGACTGTGCGGTGAAGCAACTGAAGTGGCGGTTTTTGGCTGCATGCTCTGTAAC	2094
Qy	901	GGTCTTTGCACTCTAGATAAAAAACCTTTCTTGAAGTCTAAGCCAGGAATCTGAAAACCTGCACAGAT	960	1981	TCCCTGGATTAACAACCTTGAGAGATTTACTGTGTGGACAATACCCCTTGTGCAATTTTCAGAA	2040
Db	1015	GGTCTTTGCACTCTAGATAAAAAACCTTTCTTGAAGTCTAAGCCAGGAATCTGAAAACCTGCACAGAT	1074	2095	TCCCTGGATTAACAACCTTGAGAGATTTACTGTGTGGACAATACCCCTTGTGCAATTTTCAGAA	2154
Qy	961	GCCAGCAGATGCTTTGTACTCGGCTTGGGTGCTGCGTCTGTCGCGTTGCACTCTG	1020	2041	GTGCTTTGAGATGAAGGCATCAAGTGGACAGCTCTGGAAGCAACCAAAATTTGCTGCAT	2100
Db	1075	GCCAGCAGATGCTTTGTACTCGGCTTGGGTGCTGCGTCTGTCGCGTTGCACTCTG	1134	2155	GTGCTTTGAGATGAAGGCATCAAGTGGACAGCTCTGGAAGCAACCAAAATTTGCTGCAT	2214
Qy	1021	GTCAATGGTGTCACTTTACAGACGGAGCCAGAGTGAATATCGCGTGGACGTCATGAC	1080	2101	TTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGTCTTTGATATTTCCCCCAATTTCTCTGG	2160
Db	1135	GTCAATGGTGTCACTTTACAGACGGAGCCAGAGTGAATATCGCGTGGACGTCATGAC	1194	2215	TTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGTCTTTGATATTTCCCCCAATTTCTCTGG	2274
Qy	1081	TCCTTCGATGACAGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCCTCAAGCCAAG	1140	2161	AGAAATTAACCAATTCACCTGCGTCCAGGAAGTCCCGTCTCCCGGTGTGGAGTAAC	2220
Db	1195	TCCTTCGATGACAGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCCTCAAGCCAAG	1254	2275	AGAAATTAACCAATTCACCTGCGTCCAGGAAGTCCCGTCTCCCGGTGTGGAGTAAC	2334
Qy	1141	AATATCATGGAACCTAATGATACAGAAAAATCCCTTTGTTAACTCCCTGCTCTCTGAAATCT	1200	2221	CGCGAGCCCTGCACTGTGCGCTTCTCCCTGGAGCGTTATAGCCCACTACCAACCCAGCTG	2280
Db	1255	AATATCATGGAACCTAATGATACAGAAAAATCCCTTTGTTAACTCCCTGCTCTCTGAAATCT	1314	2335	CGCGAGCCCTGCACTGTGCGCTTCTCCCTGGAGCGTTATAGCCCACTACCAACCCAGCTG	2394
Qy	1201	GCCATGACGACAGATCTGACAGTGAAGCGGACATACAGCGGAACCATCTGTCTGCAGGAC	1260	2281	TCCTGCAAAATCTGCAATTCGGCAGCTCAAAGGCCATGAACAGATCTCTCAAGTGACAGA	2340
Db	1315	GCCATGACGACAGATCTGACAGTGAAGCGGACATACAGCGGAACCATCTGTCTGCAGGAC	1374	2395	TCCTGCAAAATCTGCAATTCGGCAGCTCAAAGGCCATGAACAGATCTCTCAAGTGACAGA	2454
Qy	1261	CCTCTGGACAGGAGCTCATGACAGAGTCCCTCACTCTTTAAACCCCTTTGTGGACATCAAA	1320	2341	TCATCTCTAGAGATGAACGAGAACCAATCACTTTCTTGGCAAGAGGACAGCACTTTTC	2400
Db	1375	CCTCTGGACAGGAGCTCATGACAGAGTCCCTCACTCTTTAAACCCCTTTGTGGACATCAAA	1434	2455	TCATCTCTAGAGATGAACGAGAACCAATCACTTTCTTGGCAAGAGGACAGCACTTTTC	2514
Qy	1321	GTGAAAGTCCAGAGCTCGTTCATGGTTCCTTGGAGTGTCTGAGAGAGTGAATACAC	1380	2401	CCTGACACAGCTGGCCCCAAAGCCTTCAAAATTTCCCTACTCTCATCAGACAGCGGATTTGT	2460
Db	1435	GTGAAAGTCCAGAGCTCGTTCATGGTTCCTTGGAGTGTCTGAGAGAGTGAATACAC	1494	2515	CCTGACACAGCTGGCCCCAAAGCCTTCAAAATTTCCCTACTCTCATCAGACAGCGGATTTGT	2574
Qy	1381	GGCAAGATTCATTCAGAGCTTTTCCCATGGAACCAACCAACAGCTTTAGTACATGCAT	1440	2461	GCTACATTTTGAATCCCCCAATGCGCAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAAC	2520
Db	1495	GGCAAGATTCATTCAGAGCTTTTCCCATGGAACCAACCAACAGCTTTAGTACATGCAT	1554	2575	GCTACATTTTGAATCCCCCAATGCGCAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAAC	2634
Qy	1441	CCAGAAATTAATGCCCCTACATCCAAATCTGTCTCATCTCTCCCAACAGGACAGAACTG	1500	2521	AGCATCAACAGGAATTTATCTTTATTTTCGCTTACAAAGTAGCCCATCTCTGCTCATTTTG	2580
Db	1555	CCAGAAATTAATGCCCCTACATCCAAATCTGTCTCATCTCTCCCAACAGGACAGAACTG	1614	2635	AGCATCAACAGGAATTTATCTTTATTTTCGCTTACAAAGTAGCCCATCTCTGCTCATTTTG	2694
Qy	1501	AGGACAACTGGGTCTTTGGGCAATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGGTG	1560	2581	AACTGTGGGAAGCTCGTCATCAGCATGATGCTTGAATCTTGAATCTCCCTGGCGCTGCGCCCT	2640
Db	1615	AGGACAACTGGGTCTTTGGGCAATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGGTG	1674	2695	AACTGTGGGAAGCTCGTCATCAGCATGATGCTTGAATCTTGAATCTCCCTGGCGCTGCGCCCT	2754
Qy	1561	AGCTTACTCATACACAGGTCGCATCCAGAGGAGAAATCTTGGGAGATTTATATGTC	1620	2641	GAAGATTTGGGAGGACACACAGGAACCTCTCAACATTTTCAGAAATTTCCAGCTTTGATGAA	2700
				2755	GAAGATTTGGGAGGACACACAGGAACCTCTCAACATTTTCAGAAATTTCCAGCTTTGATGAA	2814

QY 2701 GCCGACTTCACTACAGCAGGCGAAATGGACTCTAG 2736  
 Db 2815 GCCGACTTCACTACAGCAGGCGAAATGGACTCTAG 2850

RESULT 3

ADR44588  
 ID ADR44588 standard; cDNA; 2703 BP.

XX AC ADR44588;

XX DT 04-NOV-2004 (first entry)

XX DE Novel human protein (NHP) encoding cDNA #6.

XX KW Novel human protein; NHP; drug screening; clinical trial monitoring;  
 KW cancer; arthritis; cosmetic application; cytostatic; virucidal;  
 KW gene therapy; human; SNP; single nucleotide polymorphism; chromosome 8;  
 KW gene; ss.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers  
 XX CDS 1..2703

FT /tag= a  
 FT /product= "Novel human protein (NHP)"

FT replacement(776,C)  
 FT /tag= b

FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
 FT replacement(788,C)

FT /tag= c

FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
 FT replacement(1243,T)

FT /tag= d

FT /standard\_name= "Single nucleotide polymorphism (SNP)"

XX US6777232-B1.

XX 17-AUG-2004.

XX 02-OCT-2001; 2001US-00969532.

XX 02-OCT-2000; 2000US-0237280P.

XX (LEXI-) LEXICON GENETICS INC.

XX Walke DW, Scoville J;

XX WPI; 2004-591302/57.

XX P-PSDB; ADR44589.

XX New isolated human proteins and nucleic acids, useful for diagnosing,  
 PT drug screening, clinical trial monitoring, or treating diseases and  
 PT disorders, e.g. treating cancer, arthritis, or as antiviral agents.

XX Disclosure; SEQ ID NO 11; 52pp; English.

XX The present invention provides novel human proteins (NHPs) and their  
 CC encoding polynucleotides. The invention is useful for diagnosis, drug  
 CC screening, clinical trial monitoring, treatment of diseases and disorders  
 CC such as cancer and arthritis and cosmetic applications. The invention  
 CC acts as a cytostatic and virucidal agent. The invention is useful in gene  
 CC therapy. The present sequence is a novel human protein (NHP) encoding  
 CC cDNA. The NHP encoding cDNA is located on human chromosome 8.

XX Sequence 2703 BP; 695 A; 707 C; 694 G; 607 T; 0 U; 0 Other;

Query Match 97.2%; Score 2660; DB 13; Length 2703;

Best Local Similarity 98.8%; Pred. No. 0;

Matches 2703; Conservative 0; Mismatches 0; Indels 33; Gaps 1;

QY 1 ATGGGGAGAGCGGGCCACCGCAGCGCGGGGCGCGCGCTCCGCTCCCGTGG 60

1 ATGGGGAGAGCGGGCCACCGCAGCGCGGGGCGGGCGCGCGCTCCGCTCCCGTGG 60  
 61 CTGGGGCTGTGCTTCTGGGGCGGAGGAGCGGGCTGCGCGGAGAACTGCAATGGCGAA 120  
 61 CTGGGGCTGTGCTTCTGGGGCGGAGGAGCGGGCTGCGCGGAGAACTGCAATGGCGAA 120  
 121 GCCCTTCCGAAATCCATCCCATCAGCTCTCTGGGACACATGCTCTATTTTCATAGAGGAGCCA 180  
 121 GCCCTTCCGAAATCCATCCCATCAGCTCTCTGGGACACATGCTCTATTTTCATAGAGGAGCCA 180  
 181 GATGATGCTTATATATCAAGAGCAACCTATTGCACTCAGGTGCAAGAGCGAGCGCCAGGCC 240  
 181 GATGATGCTTATATATCAAGAGCAACCTATTGCACTCAGGTGCAAGAGCGAGCGCCAGGCC 240  
 241 ATGCAGATATTTCTCAAAATGCAACGGCGAGTGGGTCCATCAGAAACGAGCAGCTCTCTGAA 300  
 241 ATGCAGATATTTCTCAAAATGCAACGGCGAGTGGGTCCATCAGAAACGAGCAGCTCTCTGAA 300  
 301 GAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCGCGAAGTGTTCATCAATGTTACTAGG 360  
 301 GAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCGCGAAGTGTTCATCAATGTTACTAGG 360  
 361 CAACAGGTGAGAGCTTCCATGGGCGCGAGGACTATTGGTGCCAGTGTGGCGTGGAGC 420  
 361 CAACAGGTGAGAGCTTCCATGGGCGCGAGGACTATTGGTGCCAGTGTGGCGTGGAGC 420  
 421 CACCTGGGTACCTCCAAAGAGCAGGAAGGCTCTCTGCGCATAGCCATTATTACGGAAGAAC 480  
 421 CACCTGGGTACCTCCAAAGAGCAGGAAGGCTCTCTGCGCATAGCCATTATTACGGAAGAAC 480  
 481 TTTGAAACAAGACCCACAAGAGGAGGAAATGCTGCGGATGGAATGCTGGAATGGAATGGAAGCCCAT 600  
 481 TTTGAAACAAGACCCACAAGAGGAGGAAATGCTGCGGATGGAATGCTGGAATGGAATGGAAGCCCAT 600  
 541 CGCCCAACAGAGCGAGTCCCTGCTGCGAGGTGGAAATGCTGGAATGGAATGGAAGCCCAT 600  
 541 CGCCCAACAGAGCGAGTCCCTGCTGCGAGGTGGAAATGCTGGAATGGAATGGAAGCCCAT 600  
 601 GACTCTGAAACAAGACCGAGAACTTGAACACAGGCGCTGACCAATACCTGATCATCAGCAG 660  
 601 GACTCTGAAACAAGACCGAGAACTTGAACACAGGCGCTGACCAATACCTGATCATCAGCAG 660  
 661 GCACGGCTCTCGGACTCAGGAAATTAACCTGATGCGAGGAGGAGCTGGGAGTGTGGAGCGAA 720  
 661 GCACGGCTCTCGGACTCAGGAAATTAACCTGATGCGAGGAGGAGCTGGGAGTGTGGAGCGAA 720  
 721 AGAAGCCTGTGGGCGCACTGTGTGGTCTACGTGGATGGGAGCTGGGAGTGTGGAGCGAA 780  
 721 AGAAGCCTGTGGGCGCACTGTGTGGTCTACGTGGATGGGAGCTGGGAGTGTGGAGCGAA 780  
 781 TGCTCCGTCTGCAAGTCCAGAGTGTGAACATTTTCCGATCCGGAGTCCGAGAGTGCACAGCACC 840  
 781 TGCTCCGTCTGCAAGTCCAGAGTGTGAACATTTTCCGATCCGGAGTCCGAGAGTGCACAGCACC 840  
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 Qy 1141 AATATCATGAACTAATGATACAGAAAAATCTTTGGTAACCTCCCTGCTCCCTGAAATCT 1200  
 Db 1108 AATATCATGAACTAATGATACAGAAAAATCTTTGGTAACCTCCCTGCTCCCTGAAATCT 1167  
 Qy 1201 GCCATGAGCGAGATCTGACAGTGGAGCGGACATACAGCGGACCCATCTCTGTCAGGAC 1260  
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 Db 1408 CCCAGAAATAAATGCGCTACATCCAAATCTGTCTCATCTCCCAACAGGACAGAACTG 1467  
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 Qy 2041 GTGGTTTTCAGATGAAAGGATCAAGGTGGACAGCTCTCTGGAAGAACAAATTTGCTGCAT 2100  
 Db 2008 GTGGTTTTCAGATGAAAGGATCAAGGTGGACAGCTCTCTGGAAGAACAAATTTGCTGCAT 2067  
 Qy 2101 TTCAAGAGGAATACCTTTAGTCTTCAATTTCTGCTCTGATATTTCCCAATTTCTCTG 2160  
 Db 2068 TTCAAGAGGAATACCTTTAGTCTTCAATTTCTGCTCTGATATTTCCCAATTTCTCTG 2127  
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 Db 2308 TCAATCTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCAACAGAGGACAGCACTTTC 2367  
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 Db 2428 GTTACATTTGATACCCCCCAATGCAAGGCAAGGACTGGCAGATGTTAGCAGAGAAAAC 2487  
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 Db 2548 AACCTGTGGGAAAGCTCGTCTCATCAGCATGATGCTGATCTTTCGCTCCCTGGCTGCTGCTT 2607  
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 Db 2608 GAAGATTTGGGAGGACACACAGAAACTCTCAAACTTTCAAACTTTCAAACTTTGATGAA 2667  
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 Db 2668 GCGGACTTCACTACAGCAGGCAAAATGCACTCTAG 2703

RESULT 4

ADR44590  
 ID ADR44590 standard; cDNA; 2694 BP.  
 XX  
 AC ADR44590;  
 XX  
 DT 04-NOV-2004 (first entry)  
 XX  
 DE Novel human protein (NHP) encoding cDNA #7.  
 XX  
 KW Novel human protein; NHP; drug screening; clinical trial monitoring;  
 KW cancer; arthritis; cosmetic application; cytostatic; virucidal;  
 KW gene therapy; human; SNP; single nucleotide polymorphism; chromosome 8;  
 KW gene; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key  
 FT CDS  
 FT  
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 FT  
 PN US6777232-B1.  
 XX  
 PD 17-AUG-2004.  
 XX





QY	1741	TGTCAGATGTCAGTTCTGAGCAATTGGAATATCCATTTAAAGAAAGAGGACACACGACGGGC	1800
Db	1699	TGTGCAGATGTCAGTTCTGAGCATTTGGAATATCCATTTAAAGAAAGAGGACACACGACGGGC	1758
QY	1801	AAATGGGAGAAAGTGATGTCAGTGGGAGATGAATCTACATCTCTGTTTACTGCTTTTGGAC	1860
Db	1759	AAATGGGAGAAAGTGATGTCAGTGGGAAAGATGAATCTACATCTCTGTTTACTGCTTTTGGAC	1818
QY	1861	CCCTTTGCGTGTCAATGTGCTCTCTGGACAGCTTTGGGACCTATGCGCTCACTGAGAGGCCA	1920
Db	1819	CCCTTTGCGTGTCAATGTGCTCTCTGGACAGCTTTGGGACCTATGCGCTCACTGAGAGGCCA	1878
QY	1921	ATCACAGACTGTGCCGTGAAGCAACTCAAGGTGGCGGTTTTGGCTGCATGTCCTGTAAAC	1980
Db	1879	ATCACAGACTGTGCCGTGAAGCAACTCAAGGTGGCGGTTTTGGCTGCATGTCCTGTAAAC	1938
QY	1981	TCCCTGGATTACAACTTGAGAGTTTACTGTGTGGACAATAACCCCTTGTGCAATTTTCAGGAA	2040
Db	1939	TCCCTGGATTACAACTTGAGAGTTTACTGTGTGGACAATAACCCCTTGTGCAATTTTCAGGAA	1998
QY	2041	GTGGTTTCAGATGAAGAGCATCAAGGTGGACAGCTCTCTGGAAGAACCAAAATTTCTGTCAT	2100
Db	1999	GTGGTTTCAGATGAAGAGCATCAAGGTGGACAGCTCTCTGGAAGAACCAAAATTTCTGTCAT	2058
QY	2101	TTCAAAAGGGAAATACCTTTAGTCTTTCAGATTTCTGTCTCTTCATATTCCTCCCATTTCTCTGG	2160
Db	2059	TTCAAAAGGGAAATACCTTTAGTCTTTCAGATTTCTGTCTCTTCATATTTCCCTCATTTCTCTGG	2118
QY	2161	AGAATTAACCAATTTCACTGTGCTGCAGGAAGTCCCGTTCTCCGCGTGTGGTGCAGTAAC	2220
Db	2119	AGAATTAACCAATTTCACTGTGCTGCAGGAAGTCCCGTTCTCCGCGTGTGGTGCAGTAAC	2178
QY	2221	GGCAGCCCTGCATCTGTGCTTCTCCCTGGAGGTTTATAGCGCCACTACACCCAGCTG	2280
Db	2179	GGCAGCCCTGCATCTGTGCTTCTCCCTGGAGGTTTATAGCGCCACTACACCCAGCTG	2238
QY	2281	TCCTGCAAAATCTGCAATTCGGCAGCTCAAAAGGCCATGAACAGATTCCTTCCAAGTGCAGACA	2340
Db	2239	TCCTGCAAAATCTGCAATTCGGCAGCTCAAAAGGCCATGAACAGATTCCTTCCAAGTGCAGACA	2298
QY	2341	TCAATCTCTAGAGTGAAACGAGAAACCATCACTTTTCTTTCGCAACAGAGGACAGGACTTTC	2400
Db	2299	TCAATCTCTAGAGTGAAACGAGAAACCATCACTTTTCTTTCGCAACAGAGGACAGGACTTTC	2358
QY	2401	CCTGCACAGACTGGCCCCCAAGCCTTCAAATTTCCCTACTTCCATTCACACAGCGGATTTGT	2460
Db	2359	CCTGCACAGACTGGCCCCCAAGCCTTCAAATTTCCCTACTTCCATTCACACAGCGGATTTGT	2418
QY	2461	GCTACATTTGATACCCCAATTCGCAAGGCAAGGACTGGCAGATGTTTTCAGACAGAAAAAC	2520
Db	2419	GCTACATTTGATACCCCAATTCGCAAGGCAAGGACTGGCAGATGTTTTCAGACAGAAAAAC	2478
QY	2521	AGCATCAACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCAATTTTG	2580
Db	2479	AGCATCAACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCAATTTTG	2538
QY	2581	AACCTGTGGGAAGCTCGTCATCAGCATGATGGTGATCTTGATCTCCCTGGCCTGTGCCCTT	2640
Db	2539	AACCTGTGGGAAGCTCGTCATCAGCATGATGGTGATCTTGATCTCCCTGGCCTGTGCCCTT	2598
QY	2641	GAAGAGATTTGGGAGGACACACACGAAACTCTCAACATTTTCAGNATCCGAGCTTGATGAA	2700
Db	2599	GAAGAGATTTGGGAGGACACACACGAAACTCTCAACATTTTCAGNATCCGAGCTTGATGAA	2658
QY	2701	GCCGACTTCAACTACAGCAGGCAAAATGGACTCTAG	2736
Db	2659	GCCGACTTCAACTACAGCAGGCAAAATGGACTCTAG	2694

RESULT 5

ADR44592

ID ADR44592 standard; cdna; 2661 BP.

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Db 241 ATCAGATATTTCTCAAAATGCAACGGGAGTGGTCCATCAGAACGAGCAGCTCTGAA 300  
Qy 301 GAGACTCTGACAGAGACTCAGGTGTTGAAGTCCGGGAAGTGTTCATCAATGTTACTAGG 360  
Db 301 GAGACTCTGACAGAGACTCAGGTGTTGAAGTCCGGGAAGTGTTCATCAATGTTACTAGG 360  
Qy 361 CAACAGGTGAGAGACTTCATATGGGCCGAGGAACTATTTGFGCCAGTGTGTGGCGTGAGC 420  
Db 361 CAACAGGTGAGAGACTTCATATGGGCCGAGGAACTATTTGFGCCAGTGTGTGGCGTGAGC 420  
Qy 421 CACCTGGGTACCTCCAGAGCAGAGAGGCTCTGTGGCAATAGCCTATTTACGGAAAC 480  
Db 421 CACCTGGGTACCTCCAGAGCAGAGAGGCTCTGTGGCAATAGCCTATTTACGGAAAC 480  
Qy 481 TTTGAACAAGACCCCAAGGAAGGGAAGTTCCCATTTGAAGGCATGATTGTACTGCACTGC 540  
Db 481 TTTGAACAAGACCCCAAGGAAGGGAAGTTCCCATTTGAAGGCATGATTGTACTGCACTGC 540  
Qy 541 CGCCCAACAGAGGAGTCCCTGTGCGAGGTGGAATGGCTGAAATGAAGAGCCCAT 600  
Db 541 CGCCCAACAGAGGAGTCCCTGTGCGAGGTGGAATGGCTGAAATGAAGAGCCCAT 600  
Qy 601 GACTCTGACAGACAGAGACATTTGACACAGAGGCTGACCATAAACCTGATCATCAGGCAG 660  
Db 601 GACTCTGACAGACAGAGACATTTGACACAGAGGCTGACCATAAACCTGATCATCAGGCAG 660  
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2553 AGACAGCACTTTCCTGCAACAGACTGGCCCCCAAGCCTTCAAAATTCCTACTCATCA 2612  
2447 GACAGCGGATTTGTGCTACATTTTATACCCCAATGCAAAAGCAAGGACTGGCAGATGT 2506  
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2687 CCCAGCTTGATGAAGCGGACTTCAACTACAGCAGGCAAAATGGAAGTCTAG 2736  
2853 CCCAGCTTGATGAAGCGGACTTCAACTACAGCAGGCAAAATGGAAGTCTAG 2902

RESULT 8  
ADQ24624  
ID ADQ24624 standard; DNA; 8899 BP.  
XX  
AC ADQ24624;  
XX  
DT 26-AUG-2004 (first entry)  
XX  
DE Human soft tissue sarcoma-upregulated DNA - SEQ ID 7444.  
XX  
KW soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;  
KW ds.  
XX  
OS Homo sapiens.  
XX  
PN WO2004048938-A2.  
XX  
PD 10-JUN-2004.  
XX  
PF 26-NOV-2003; 2003WO-US038193.  
XX  
PR 26-NOV-2002; 2002US-0429739P.  
XX  
PA (PROT-) PROTEIN DESIGN LABS INC.  
XX  
PI Aziz N, Ginsburg WM, Zlotnik A;  
XX  
WPI; 2004-441208/41.  
XX  
Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue sarcoma.  
XX  
Example 2; SEQ ID NO 7444; 210pp; English.  
XX  
The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples, where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated DNA of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.







QY 342 GTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGTGGCCCGAGGACTATTGGTG 401  
 Db 453 GTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGTGGCCCGAGGACTATTGGTG 512  
 QY 402 CCAGTGTGGCGTGGAGCCACCTGGGTACCTCCAGAGCAGGAAGCCCTCTGTGGCAT 461  
 Db 513 CCAGTGTGGCGTGGAGCCACCTGGGTACCTCCAGAGCAGGAAGCCCTCTGTGGCAT 572  
 QY 462 AGCCTATTACGGAAAACTTTGAAACAAGACCACCAAGGAAGGAGTTCCTCCATTGAAGG 521  
 Db 573 AGCCTATTACGGAAAACTTTGAAACAAGACCACCAAGGAAGGAGTTCCTCCATTGAAGG 632  
 QY 522 CATGATTGTACTGCACTGCCGCCACCAAGAGGAGTCCCTGTGCCGAGGTGAAATGGCT 581  
 Db 633 CATGATTGTACTGCACTGCCGCCACCAAGAGGAGTCCCTGTGCCGAGGTGAAATGGCT 692  
 QY 582 GAAATATGAGAGCCCAATTGACTCTGAAACAAGACGAGAACATTTGACACCAAGGCGCTGACCA 641  
 Db 693 GAAATATGAGAGCCCAATTGACTCTGAAACAAGACGAGAACATTTGACACCAAGGCGCTGACCA 752  
 QY 642 TAACTCTGATCATCAGGCAGGCAAGCTCTCGGACTCAGGAAATTTACACCTGCAATGGCAGC 701  
 Db 753 TAACTCTGATCATCAGGCAGGCAAGCTCTCGGACTCAGGAAATTTACACCTGCAATGGCAGC 812  
 QY 702 CAACATCGTGGCTAAGAGGAGAACGCTGTCCGCCACTGTGTGGTCTTAC 750  
 Db 813 CAACATCGTGGCTAAGAGGAGAACGCTGTCCGCCACTGTGTGGTCTTACGTGAATGGAGG 872  
 QY 751 ----- 750  
 Db 873 CTGGTCTTCTGACAGAGTGGTCAGCCTGCAATGTTGCGTGTGGTAGAGATGGCAGAA 932  
 QY 751 ----- 750  
 Db 933 ACSTTCCCGACCTGCACCAACCCAGCTCCTCTCAATGTGGGGCCCTTTTGTGAGGGAAT 992  
 QY 751 ----- GTGATGGAGCTGGGAAGTGTG 773  
 Db 993 GTCAGTGCAGAAAAAATACCTGCACCTCTCTTTGCTGTGGATGGGAGCTGGGAAGTGTG 1052  
 QY 774 GAGGGAATGTCGTCTGAGTCCAGAGTGTGAACATTTCCGATCCGGAGTGCACAGC 833  
 Db 1053 GAGGGAATGTCGTCTGAGTCCAGAGTGTGAACATTTCCGATCCGGAGTGCACAGC 1112  
 QY 834 ACCACCCCGAGAAATGGGGGCAAAATCTGTGAAGGTCTAAGCAGCAAAATCTCAAAACTG 893  
 Db 1113 ACCACCCCGAGAAATGGGGGCAAAATCTGTGAAGGTCTAAGCAGCAAAATCTCAAAACTG 1172  
 QY 894 CACAGATGGTCTTTGCACTCTAGATAAAAAAACCCTCTTCATGAAATAAAACCCCAAGCAT 953  
 Db 1173 CACAGATGGTCTTTGCACTCTAG-----GCAT 1199  
 QY 954 TGAGATGCCAGCAGACATTTGTTTGTACTCGGCGTGGGTGCTGCCGTGTGGCCGTGTC 1013  
 Db 1200 TGAGATGCCAGCAGACATTTGTTTGTACTCGGCGTGGGTGCTGCCGTGTGGCCGTGTC 1259  
 QY 1014 AGTCCTGGTCAATTTGTGTCACTTTACAGCCGAGCCAGAGTGAATATGGCGTGGACGT 1073  
 Db 1260 AGTCCTGGTCAATTTGTGTCACTTTACAGCCGAGCCAGAGTGAATATGGCGTGGACGT 1319  
 QY 1074 CATTTGACTCTTTGCAATTTGACAGTGGCTTCCAGACTTCAACTTCAAAACAGTCCGTCA 1133  
 Db 1320 CATTTGACTCTTTGCAATTTGACAGTGGCTTCCAGACTTCAACTTCAAAACAGTCCGTCA 1379  
 QY 1134 AGCCAAGATATCATGGAATATGATACAGAAAAAATCCTTTGGTAACTCCCTGCTCCT 1193  
 Db 1380 A-----GGTAACTCCCTGCTCCT 1397  
 QY 1194 GAATTTCTGCCATGCAGCAGATCTGACAGTGAGCCGGAACATACAGCGGAGCCCATCTGTCT 1253  
 Db 1398 GAATTTCTGCCATGCAGCAGATCTGACAGTGAGCCGGAACATACAGCGGAGCCCATCTGTCT 1457  
 QY 1254 GCAGGACCCCTCTGGCAAGAGAGCTCATGACAGAGTCTCTCACTCTTTAAACCTTTGTGCGA 1313

Db 1458 GCAGGACCCCTCTGGCAAGAGAGCTCATGACAGAGTCTCCTCACTCTTTAAACCTTTGTGCGA 1517  
 QY 1314 CATCAAAGTGAAGTCCAGAGCTCGTTTCATGTTTCCCTGGGAGTCTCTGAGAGAGCTGA 1373  
 Db 1518 CATCAAAGTGAAGTCCAGAGCTCGTTTCATGTTTCCCTGGGAGTCTCTGAGAGAGCTGA 1577  
 QY 1374 GTACCAACGCAAGAAATCATTTTCAGAGACTTTTCCCATGGAAAACAACACAGCTTTTAGTAC 1433  
 Db 1578 GTACCAACGCAAGAAATCATTTTCAGAGACTTTTCCCATGGAAAACAACACAGCTTTTAGTAC 1637  
 QY 1434 AATGCAATCCAGAAAATAAATGCTTACATCCAAAATCTGTCTCATCTCCTCCCAACAGGAC 1493  
 Db 1638 AATGCAATCCAGAAAATAAATGCTTACATCCAAAATCTGTCTCATCTCCTCCCAACAGGAC 1697  
 QY 1494 AGAACTGAGGACAACTGGTGTCTTTGGCCATTTAGGGGGCGCTTAGTAAATGCAAAATAC 1553  
 Db 1698 AGAACTGAGGACAACTGGTGTCTTTGGCCATTTAGGGGGCGCTTAGTAAATGCAAAATAC 1757  
 QY 1554 AGGGGTGAGCTTACTCATACCAACGCTGCCATCCAGAGGAGAAATTTTGGGAGATTTA 1613  
 Db 1758 AGGGGTGAGCTTACTCATACCAACGCTGCCATCCAGAGGAGAAATTTTGGGAGATTTA 1817  
 QY 1614 TATGTCATCAACCAAGGTGAACCCAGCTTCCAGTCAGATGGCTCTGAGGTGCTCCTGAG 1673  
 Db 1818 TATGTCATCAACCAAGGTGAACCCAGCTTCCAGTCAGATGGCTCTGAGGTGCTCCTGAG 1877  
 QY 1674 TCTGGAAGTCACTGTGTCTCCAGACATGATCGTCAACACTCCCTTTGCAATGGACCAT 1733  
 Db 1878 TCTGGAAGTCACTGTGTCTCCAGACATGATCGTCAACACTCCCTTTGCAATGGACCAT 1937  
 QY 1734 CCGCAGCTGTGAGATGTCTGAGCAATTTGGAATATCCATTTAAAGAGAGGACACA 1793  
 Db 1938 CCGCAGCTGTGAGATGTCTGAGCAATTTGGAATATCCATTTAAAGAGAGGACACA 1997  
 QY 1794 GCAGGCAAAATGGGAGAGTGAATGTCTGAGAGAGTGAATCTTACATCTCTGTTTACCTGCCT 1853  
 Db 1998 GCAGGCAAAATGGGAGAGTGAATGTCTGAGAGAGTGAATCTTACATCTCTGTTTACCTGCCT 2057  
 QY 1854 TTTTGACCCCTTTGGGTGTCATGTCCTCTGAGCACTTTGGGAGCTATGCGCTCACTG 1913  
 Db 2058 TTTTGACCCCTTTGGGTGTCATGTCCTCTGAGCACTTTGGGAGCTATGCGCTCACTG 2117  
 QY 1914 AGAGCCAATCACAGACTGTGCGGTGAAGCAACTGAAGGTGGCGGTTTTGGGTGCAATGTC 1973  
 Db 2118 AGAGCCAATCACAGACTGTGCGGTGAAGCAACTGAAGGTGGCGGTTTTGGGTGCAATGTC 2177  
 QY 1974 CTGTAACCTCCCTGGATTAACAATTGAGAGTTTACTGTGTGGAACAATACCCCTTTGTGCAT 2033  
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 QY 2034 TCAGGAGAGTGGTTTCAGATGAAGGCATCAAGGTGGACAGCTCTCGGAAGAACCAAAAT 2093  
 Db 2238 TCAGGAGAGTGGTTTCAGATGAAGGCATCAAGGTGGACAGCTCTCGGAAGAACCAAAAT 2297  
 QY 2094 GCTGCAATTTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGCTCTGATATTTCCCCCAT 2153  
 Db 2298 GCTGCAATTTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGCTCTGATATTTCCCCCAT 2357  
 QY 2154 CTTCTGGAGAAATTAACCAATCACTGCTGCGCAGGAAGTCCCGTTCTCCCGGTGTGGTG 2213  
 Db 2358 CTTCTGGAGAAATTAACCAATCACTGCTGCGCAGGAAGTCCCGTTCTCCCGGTGTGGTG 2417  
 QY 2214 CAGTAACCGGAGCCCTGCACTGCTGCTTCTCCCTGGAGCGTTATACCCCACTACCCAC 2273  
 Db 2418 CAGTAACCGGAGCCCTGCACTGCTGCTTCTCCCTGGAGCGTTATACCCCACTACCCAC 2477  
 QY 2274 CCAGCTGTCTCTCAAAATCTGCAATTCGGCAGCTCAAAAGCCCATGAACAGATCCTCAAGT 2333  
 Db 2478 CCAGCTGTCTCTCAAAATCTGCAATTCGGCAGCTCAAAAGCCCATGAACAGATCCTCAAGT 2537  
 QY 2334 GCAGACATCAATCTTAGAGGTGAACGAGAAACCAATCACTTTCTTCTGCGACAGAGACAG 2393

Db 2538 GCAGACATCAATCCTAGAGAGTGAACGAGAAACCATCATCTTTCTTCGCACAAGGACAG 2597  
 QY 2394 CACTTTCCTGCGACAGACTGGCCGCCAAAGCCTTCAAAATTCCTACTCCATCAGACAGCG 2453  
 Db 2598 CACTTTCCTGCGACAGACTGGCCGCCAAAGCCTTCAAAATTCCTACTCCATCAGACAGCG 2657  
 QY 2454 GATTGTGCTACATTTGATACCCCTCCATGATGCAAGGCAAGGACTGGCAGATGTTAGCACA 2513  
 Db 2658 GATTGTGCTACATTTGATACCCCTCCATGATGCAAGGCAAGGACTGGCAGATGTTAGCACA 2717  
 QY 2514 GAAAAACAGCATCAACAGAGGAATTTATCTTATTTTCGCTACAAAAGTAGCCCATCTGCTGT 2573  
 Db 2718 GAAAAACAGCATCAACAGAGGAATTTATCTTATTTTCGCTACAAAAGTAGCCCATCTGCTGT 2777  
 QY 2574 CATTTTGAACCTGTGGAGCTGCTCATCAGCATGATGATGATCTTGAATCCCTGGCCTG 2633  
 Db 2778 CATTTTGAACCTGTGGAGCTGCTCATCAGCATGATGATGATCTTGAATCCCTGGCCTG 2837  
 QY 2634 TGCCTTGAAGAGATTGGGAGGACACACAGAACTCTCAAACTTTCAGAAATCCAGCT 2693  
 Db 2838 TGCCTTGAAGAGATTGGGAGGACACACAGAACTCTCAAACTTTCAGAAATCCAGCT 2897  
 QY 2694 TGAATAGCGGACTTCAACTACAGCAGGCAAAATGGAATCTAG 2736  
 Db 2898 TGAATAGCGGACTTCAACTACAGCAGGCAAAATGGAATCTAG 2940  
 RESULT 10  
 ADC77423  
 ID ADC77423 standard; DNA; 2868 BP.  
 AC ADC77423;  
 XX  
 DT 01-JAN-2004 (first entry)  
 XX  
 DE Human transmembrane protein INSP017 full length cDNA sequence.  
 XX  
 KW INSP017; transmembrane protein; netrin receptor family; netrin; axon;  
 KW cell migration; axon path-finding; central nervous system;  
 KW inflammatory disease; oncology; cardiovascular disease; cytoskeletal;  
 KW antiinflammatory; immunosuppressive; cardiant; anti-HIV; neuroprotective;  
 KW nontropic; antiparkinsonian; antidepressant; neuroleptic; osteopathic;  
 KW antiarteriosclerotic; nephrotropic; immunomodulator; antidiabetic;  
 KW antiinfertility; gene therapy; cell proliferative disorder;  
 KW myeloproliferative disorder; autoimmune disorder; inflammatory disorder;  
 KW cardiovascular disorder; neurological disorder; psychiatric disorder;  
 KW developmental disorder; bone disease; atherosclerosis;  
 KW glomerulonephritis; AIDS; HIV infection; metabolic disorder;  
 KW pregnancy disorder; birth complication; human; gene; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 1..2868  
 FT /tag= a  
 FT /product= "Human INSP017 protein"  
 FT /partial  
 FT /note= "No stop codon"  
 XX  
 PN WO2003055915-A2.  
 XX  
 PD 10-JUL-2003.  
 XX  
 PF 20-DEC-2002; 2002WO-GB005956.  
 XX  
 PR 21-DEC-2001; 2001GB-00030721.  
 XX  
 PA (ARES-) ARES TRADING SA.  
 XX  
 PI Fitzgerald SN, Fagan RJ, Phelps CB, Power C, Yorke M;  
 XX WPI; 2003-559270/52.  
 DR P-PSDB; ADC77424.  
 DR

XX New polypeptide, useful for the manufacture of a medicament for treating  
 PT disease, e.g., cell proliferative, autoimmune, inflammatory,  
 PT cardiovascular or neurological disorders.  
 XX  
 PS Claim 9; SEQ ID NO 33; 96pp; English.  
 XX  
 CC This invention relates to a novel human protein (INSP017), a  
 CC transmembrane protein of the netrin receptor family, and to the use of  
 CC this protein and the DNA sequence which encodes it for diagnosis,  
 CC prevention and treatment of disease. Netrins are a family of secreted  
 CC proteins which are involved in both repelling and attracting axons and  
 CC thus function as guidance molecules for cell migration and axon path-  
 CC finding processes in the central nervous system. Transmembrane proteins  
 CC such as that of the invention have been shown to play a role in diverse  
 CC physiological functions and they may be involved in many diseases,  
 CC particularly inflammatory diseases, oncology and cardiovascular disease.  
 CC Compounds which modulate the transmembrane protein of the invention may  
 CC therefore have cytostatic, antiinflammatory, immunosuppressive, cardiant,  
 CC anti-HIV, neuroprotective, nontropic, antiparkinsonian, antidepressant,  
 CC immunomodulator, osteopathic, antiarteriosclerotic, nephrotropic,  
 CC neuroleptic, antidiabetic or antiinfertility activity. In addition,  
 CC the protein and amino acid sequence of the invention may be useful for  
 CC gene therapy. The protein, nucleic acid (and compound and pharmaceutical  
 CC composition) of the invention may be useful for the manufacture of a  
 CC medicament for treating disease, such as cell proliferative disorders,  
 CC myeloproliferative disorders, autoimmune/inflammatory disorders,  
 CC cardiovascular disorders, neurological disorders, psychiatric disorders,  
 CC developmental disorders, bone disease, atherosclerosis,  
 CC glomerulonephritis, AIDS, HIV infections, metabolic disorders, pregnancy  
 CC disorders and birth complications. The present sequence is the cloned  
 CC cDNA sequence which encodes the protein INSP017 of the invention.  
 XX  
 SQ Sequence 2868 BP; 732 A; 748 C; 714 G; 674 T; 0 U; 0 Other;  
 Query Match 83.5%; Score 2284; DB 10; Length 2868;  
 Best Local Similarity 91.3%; Pred. No. 0;  
 Matches 2557; Conservative 0; Mismatches 0; Indels 243; Gaps 3;  
 QY 102 AGGAATGACAAATGGCGAAGCCCTTCCGAATCCATCCATCAGCTCTGGGACACTGCC 161  
 Db 144 AGGAATGACAAATGGCGAAGCCCTTCCGAATCCATCCATCAGCTCTGGGACACTGCC 203  
 QY 162 TCATTTATAGAGGAGCCAGATGATCTTATATATCAAGAGCAACCTTATTCACCTCAG 221  
 Db 204 TCATTTATAGAGGAGCCAGATGATCTTATATATCAAGAGCAACCTTATTCACCTCAG 263  
 QY 222 GTGCAAGCGAGGCCAGCCATGCAGATATTTCTTCAATGCAAGCGAGTGGGTCCATCA 281  
 Db 264 GTGCAAGCGAGGCCAGCCATGCAGATATTTCTTCAATGCAAGCGAGTGGGTCCATCA 323  
 QY 282 GAAACGAGCACGTCTCTGAAGAGACTCTGGAACGAGACTCAGGTTTGAAGTCCGCGAAGT 341  
 Db 324 GAAACGAGCACGTCTCTGAAGAGACTCTGGAACGAGACTCAGGTTTGAAGTCCGCGAAGT 383  
 QY 342 GTTCATCAATGTTACTAGGCAACAGGTGGAGACTTCCATGGGCCCGAGACTATTGGTG 401  
 Db 384 GTTCATCAATGTTACTAGGCAACAGGTGGAGACTTCCATGGGCCCGAGACTATTGGTG 443  
 QY 402 CCAGTGTGGGTGGAGCCACCTGGGTACCTCCAAAGAGCAGGAAGCCCTCTGTGGCGAT 461  
 Db 444 CCAGTGTGGGTGGAGCCACCTGGGTACCTCCAAAGAGCAGGAAGCCCTCTGTGGCGAT 503  
 QY 462 AGCCTATTTACGGAAGAACTTTGAAACAAGACCCCAAGAGAGGAAAGTTCCTCCATTGAAGG 521  
 Db 504 AGCCTATTTACGGAAGAACTTTGAAACAAGACCCCAAGAGAGGAAAGTTCCTCCATTGAAGG 563  
 QY 522 CATGATGTACTGCACTGGCCGCCACACAGAGGAGTCCCTGTGCCGAGTGAATGGCT 581  
 Db 564 CATGATGTACTGCACTGGCCGCCACACAGAGGAGTCCCTGTGCCGAGTGAATGGCT 623  
 QY 582 GAAATATGAGAGCCCATTTGACTCTCAACAAGACGAGACATTGACACACAGGCTGACCA 641

Db 624 GAAAAATGAAGACCCATTGACTCTGAAACAAGACGAGAAATTTGACACCCAGGCGCTGACCA 683  
Qy 642 TAACCTGATCATCAGCAGCAGCGCTCTCGACTCAGGAAATTAACCTGATGCGCAGC 701  
Db 684 TAACCTGATCATCAGCAGCAGCGCTCTCGACTCAGGAAATTAACCTGATGCGCAGC 743  
Qy 702 CAACATCTGGCTTAAGAGAGAGAGCTCTCGGCACTCTGTTGGTCTAC----- 750  
Db 744 CAACATCTGGCTTAAGAGAGAGAGCTCTCGGCACTCTGTTGGTCTACGTAATGGAGG 803  
Qy 751 ----- 750  
Db 804 CTGGTCTTCTGGAAGAGTGGTGCAGCTGCAATGTTGCTGTGTGTAGAGATGGCAGAA 863  
Qy 751 ----- 750  
Db 864 ACCTTCCCGACCTGCACCAACCCAGCTCTCTCAATGTTGGGCGCTTTTGTAGGGAAT 923  
Qy 751 -----GTGGATGGGAGCTGGGAAGTGTG 773  
Db 924 GTCAGTGCAGAAATAAAGCTGCACCTTCTTTGTCCTGTGGATGGAGCTGGGAAGTGTG 983  
Qy 774 GAGCGAATGGTCCGTCTGAGTCCAGAGTGAACAATTTGCGGATCCGGAGTGCACAGC 833  
Db 984 GAGCGAATGGTCCGTCTGAGTCCAGAGTGAACAATTTGCGGATCCGGAGTGCACAGC 1043  
Qy 834 ACCACCCCGAGAAATGGGGGCAAAATCTGTGAAGTCTAAGCCAGGAATCTGAAACTG 893  
Db 1044 ACCACCCCGAGAAATGGGGGCAAAATCTGTGAAGTCTAAGCCAGGAATCTGAAACTG 1103  
Qy 894 CACAGATGGTCTTTGATCCTAGATAAAACCTTCTCATGAAATAAAACCCCAAGCAT 953  
Db 1104 CACAGATGGTCTTTGATCCTAG-----GCAT 1130  
Qy 954 TGAGAAATGCCAGGCAATTTGCTTTGTAATCGGGCTTGGGTGCTGCGCTGCGCGCTTGC 1013  
Db 1131 TGAGAAATGCCAGGCAATTTGCTTTGTAATCGGGCTTGGGTGCTGCGCTGCGCGCTTGC 1190  
Qy 1014 AGTCCTGCTCATTTGCTGACCCCTTTACAGACGGAGCCAGAGTACTATGGGTGACGT 1073  
Db 1191 AGTCCTGCTCATTTGCTGACCCCTTTACAGACGGAGCCAGAGTACTATGGGTGACGT 1250  
Qy 1074 CATTTGACTCTTCTGATTTGACAGGTGGCTTCCAGACCTTCAATTTCAAAACAGTCCGTCA 1133  
Db 1251 CATTTGACTCTTCTGATTTGACAGGTGGCTTCCAGACCTTCAATTTCAAAACAGTCCGTCA 1310  
Qy 1134 AGCCAAGATATCATGGAATTAATGATACAGAAAAATCGTTTGGTAACTCCCTGCTCT 1193  
Db 1311 A-----GGTAACTCCCTGCTCT 1328  
Qy 1194 GAATTTGCCATGCAGCCAGATCTGACAGTGAAGCCGGAATACAGCGGACCCCATCTGTCT 1253  
Db 1329 GAATTTGCCATGCAGCCAGATCTGACAGTGAAGCCGGAATACAGCGGACCCCATCTGTCT 1388  
Qy 1254 GCAGGACCTCTCTGGAACAAGAGTCTATGACAGAGTCTCTCACTTTAACCCCTTTGCGGA 1313  
Db 1389 GCAGGACCTCTCTGGAACAAGAGTCTATGACAGAGTCTCTCACTTTTAAACCCCTTTGCGGA 1448  
Qy 1314 CATCAAAGTGAAGTCCAGAGTCTGTTTCTGTTTCCCTGGAGTGTCTGAGAGACTGA 1373  
Db 1449 CATCAAAGTGAAGTCCAGAGTCTGTTTCTGTTTCCCTGGAGTGTCTGAGAGACTGA 1508  
Qy 1374 GTACCAAGGCAAGAAATCATTTCCAGGACTTTTCCCATGGAACCAACACAGCTTTTAGTAC 1433  
Db 1509 GTACCAAGGCAAGAAATCATTTCCAGGACTTTTCCCATGGAACCAACAGCTTTTAGTAC 1568  
Qy 1434 AATGCATCCAGAAATAAATATGCCCTATATCCAAAATCTGTCTATCATCTCCCAACAAGGAC 1493  
Db 1569 AATGCATCCAGAAATAAATATGCCCTATATCCAAAATCTGTCTATCATCTCCCAACAAGGAC 1628  
Qy 1494 AGAAGTGAAGACAACTGGTGTCTTTGGCCATTTAGGGGGCGCTTAGTATGATGCAATATAC 1553  
Db 1629 AGAAGTGAAGACAACTGGTGTCTTTGGCCATTTAGGGGGCGCTTAGTATGATGCAATATAC 1688

Qy 1554 AGGGGTGAGCTTACTCATACACACGCTGCCATCCAGAGGAGAATTTCTTGGGAGATTTA 1613  
Db 1689 AGGGGTGAGCTTACTCATACACACGCTGCCATCCAGAGGAGAATTTCTTGGGAGATTTA 1748  
Qy 1614 TATGTCCATCAACCAAGGTGAACCCAGGCTCCAGTCAGATGGCTCTGAGGTCTCTGAG 1673  
Db 1749 TATGTCCATCAACCAAGGTGAACCCAGGCTCCAGTCAGATGGCTCTGAGGTCTCTGAG 1808  
Qy 1674 TCTGAAAGTCACTGCTGCTCCAGACATGATCTCACCCTCCCTTTGCAATGACCAAT 1733  
Db 1809 TCTGAAAGTCACTGCTGCTCCAGACATGATCTCACCCTCCCTTTGCAATGACCAAT 1868  
Qy 1734 CCGGCACCTGTGCAGATGTCTGAGCATTTGGAATATCCATTTAAAGAGAGACACA 1793  
Db 1869 CCGGCACCTGTGCAGATGTCTGAGCATTTGGAATATCCATTTAAAGAGAGACACA 1928  
Qy 1794 GCAGGCAAAATGGGAGGAGTGTGATGTGAGTGAAGATGAATCTACATCTGTTACTGCT 1853  
Db 1929 GCAGGCAAAATGGGAGGAGTGTGATGTGAGTGAAGATGAATCTACATCTGTTACTGCT 1988  
Qy 1854 TTTGACCCCTTTGGGTGTCTGCTCTCTGACAGCTTTGGGACCTATGCGCTCACTGG 1913  
Db 1989 TTTGACCCCTTTGGGTGTCTGCTCTCTGACAGCTTTGGGACCTATGCGCTCACTGG 2048  
Qy 1914 AGAGCCAAATCAAGACAGTGTGCGGTGAAGCAACTGAAGTGGCGGTTTTTGGCTGCAATGTC 1973  
Db 2049 AGAGCCAAATCAAGACAGTGTGCGGTGAAGCAACTGAAGTGGCGGTTTTTGGCTGCAATGTC 2108  
Qy 1974 CTGTAACTCCCTGGATTAACAATTTGAGAGTTTACTGTGTGGAATATACCCCTTTGTCATT 2033  
Db 2109 CTGTAACTCCCTGGATTAACAATTTGAGAGTTTACTGTGTGGAATATACCCCTTTGTCATT 2168  
Qy 2034 TCAGGAAGTGGTTTCAGATGAAGGCATCAAGTGGACAGCTCTCGGAGAACCAAAAT 2093  
Db 2169 TCAGGAAGTGGTTTCAGATGAAGGCATCAAGTGGACAGCTCTCGGAGAACCAAAAT 2228  
Qy 2094 GCTGATTTTCAAGGGAATACCTTTAGTCTTCAGATTTCTGCTCTGATATTTCCCTCAAT 2153  
Db 2229 GCTGATTTTCAAGGGAATACCTTTAGTCTTCAGATTTCTGCTCTGATATTTCCCTCAAT 2288  
Qy 2154 CTTCTGGAGAAATAAACCATTCATCTGCTGCCAGAGTCCCGTCTCTCCCGGTGTGGTG 2213  
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Qy 2334 GCAGACATCAATCTTAGAGAGTGAAGAGAAACCATCACTTTCTTGGCAAGAGACAG 2393  
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Qy 2394 CACTTTCCCTGCACAGACTGGCCCAAGCCTTCAAAATTCCTACTCTCATCAGACAGCG 2453  
Db 2529 CACTTTCCCTGCACAGACTGGCCCAAGCCTTCAAAATTCCTACTCTCATCAGACAGCG 2588  
Qy 2454 GATTTGTGCTACATTTGATATCCCAATGCCAAATGCCAAAGCAAGGAGTGGCAGATGTTAGCA 2513  
Db 2589 GATTTGTGCTACATTTGATATCCCAATGCCAAATGCCAAAGCAAGGAGTGGCAGATGTTAGCA 2648  
Qy 2514 GAAACACAGCATCAACAGGAATTTATCTTATTTCCGTACACAAAGTAGCCCATCTGCTGT 2573  
Db 2649 GAAACACAGCATCAACAGGAATTTATCTTATTTCCGTACACAAAGTAGCCCATCTGCTGT 2708  
Qy 2574 CATTTTGAACCTGTGGGAAGCTCGTCATCAGCATGATGTTGATCTTTGACTCCCTGGCCCTG 2633  
Db 2709 CATTTTGAACCTGTGGGAAGCTCGTCATCAGCATGATGTTGATCTTTGACTCCCTGGCCCTG 2768



Db 638 TAACCTGATCATCAGGAGGACGCGCTCTCGGACTCAGGAAATATACACCTGCTCATGGCAGC 697  
QY 702 CAACATCGTGGCTTAAGAGGAGAGCCCTGTGCGCCACTGTGTGGTCTAC-----750  
Db 698 CAACATCGTGGCTTAAGAGGAGAGCCCTGTGCGCCACTGTGTGGTCTACGTGAATGGAGG 757  
QY 751 -----750  
Db 758 CTGCTCTTCTGGACAGAGTGGTCAGCCTGCAATGTTGCTGTGCTGTAGAGATGGCAGAA 817  
QY 751 -----750  
Db 818 ACCTTCCCGACCTGCACCAACCCAGCTCCTCAATGTGTGGGCGCTTTTGTGAGGGAAT 877  
QY 751 -----GTGGATGGGAGCTGGGAAGTGTG 773  
Db 878 GTCAGTGCAGAAATAACCTGCACTTCTCTTTGTCTGTGGATGGGAGCTGGGAAGTGTG 937  
QY 774 GAGCGAATGGTCCGCTCTGCACTGCAAGTGTGAACATTTGCGGATCCGGAGTGCACAGC 833  
Db 938 GAGCGAATGGTCCGCTCTGCACTGCAAGTGTGAACATTTGCGGATCCGGAGTGCACAGC 997  
QY 834 ACCACCCCGAGAAATGGGGGCAAAATTTCTGTGAAGGTCTAAGCCAGGAATCTGAAAACTG 893  
Db 998 ACCACCCCGAGAAATGGGGGCAAAATTTCTGTGAAGGTCTAAGCCAGGAATCTGAAAACTG 1057  
QY 894 CACAGATGGTCTTTGATCTCTAGATAAAACCTCTTCATGAATAAAACCCCAAGC-- 951  
Db 1058 CACAGATGGTCTTTGATCTCTAACTCCACCAATGCAGGAACCCCAAGGTAGTGCCT 1117  
QY 952 -----ATTGAGAATGCCAGCAGCATTTGCTTTGTACTTCGGGCTTGGGTGC 995  
Db 1118 TCAGACGCTATGCCAAATTCAGAATGCCAGCATTTGCTTTGTACTTCGGGCTTGGGTGC 1177  
QY 996 TGGCGTGTGGCGTGTGCACTCTGTCAGTCTGTCATTTGTCATTCGGGCTTGGGTGC 1055  
Db 1178 TGGCGTGTGGCGTGTGCACTCTGTCAGTCTGTCATTTGTCATTCGGGCTTGGGTGC 1237  
QY 1056 TGACTATGGCGTGGAGCTCAATCACTCTCTGTCATTTGACAGAGTGGCTTCAGACCTTCAA 1115  
Db 1238 TGACTATGGCGTGGAGCTCAATCACTCTCTGTCATTTGACAGAGTGGCTTCAGACCTTCAA 1297  
QY 1116 CTTCAAAACAGTCCGTCAGCCAAAGAAATATCATGAACTAATGATCAAGAAATACCTTT 1175  
Db 1298 CTTCAAAACAGTCCGTCAA-----1316  
QY 1176 TGSTAACTCCCTGCTCTGAAATTTCTGCCATGACGACAGATCTGACAGTGAAGCCGACATA 1235  
Db 1317 -GGGAACTCCCTGCTCTGAAATTTCTGCCATGACGACAGATCTGACAGTGAAGCCGACATA 1375  
QY 1236 CAGCGGACCATCTGTCTGACGACCTCTGGAACAAGGAGCTCATGACAGAGTCTCTCACT 1295  
Db 1376 CAGCGGACCATCTGTCTGACGACCTCTGGAACAAGGAGCTCATGACAGAGTCTCTCACT 1435  
QY 1296 CTTTAAACCTTTGTGCGACATCAAGGTGAAGTCCAGAGCTCGTTTCATGTTTCCCTGGG 1355  
Db 1436 CTTTAAACCTTTGTGCGACATCAAGGTGAAGTCCAGAGCTCGTTTCATGTTTCCCTGGG 1495  
QY 1356 AGTGTCTGAGAGAGCTGAGTACACGGCAAGATCAITTCAGAGCTTTTCCCATGGAAA 1415  
Db 1496 AGTGTCTGAGAGAGCTGAGTACACGGCAAGATCAITTCAGAGCTTTTCCCATGGAAA 1555  
QY 1416 CAACACAGCTTTAGTACAAATGATCCGAAATAAATGSCCTTACATCCAAATCTGTC 1475  
Db 1556 CAACACAGCTTTAGTACAAATGATCCGAAATAAATGSCCTTACATCCAAATCTGTC 1615  
QY 1476 ATCACTCCCAAGGACAGAACTGAGGACAACTGGTGTCTTTGGCCATTTAGGGGGGG 1535  
Db 1616 ATCACTCCCAAGGACAGAACTGAGGACAACTGGTGTCTTTGGCCATTTAGGGGGGG 1675  
QY 1536 CTTAGTAATGCCAAATACAGGGGTGAGCTTACTATACCAACAGCGTGCATCCACAGGA 1595

Db 1676 CTTAGTAATGCCAAATACAGGGGTGAGCTTACTATACACACGCGTCCATCCACAGGA 1735  
QY 1596 GAATTCCTTGGGAGATTTATATGTCATCAACCAAGGTGAACCCAGCTCCAGTCCAGATGG 1655  
Db 1736 GAATTCCTTGGGAGATTTATATGTCATCAACCAAGGTGAACCCAG-----GTCCAGATGG 1789  
QY 1656 CTTGAGGTGCTCCTCAGTCTTGAAGTCACTGTGCTCTTCCAGACATGATCTCACCAC 1715  
Db 1790 CTTGAGGTGCTCCTCAGTCTTGAAGTCACTGTGCTCTTCCAGACATGATCTCACCAC 1849  
QY 1716 TCCCTTTGATTTGACCAATCCCGCACTGTGAGATGTCAGTTCTGAGATTTGGAATATCCA 1775  
Db 1850 TCCCTTTGATTTGACCAATCCCGCACTGTGAGATGTCAGTTCTGAGATTTGGAATATCCA 1909  
QY 1776 TTTAAAGAGAGACACAGCAGGCAAAATGGGAGGAAGTGAATGTCAGTGAAGATGAATC 1835  
Db 1910 TTTAAAGAGAGACACAGCAGGCAAAATGGGAGGAAGTGAATGTCAGTGAAGATGAATC 1869  
QY 1836 TACATCCTGTTACTGCTTTTGGACCCCTTTTGGCTGTCTATGTGCTCTCTGACAGCTTTGG 1895  
Db 1970 TACATCCTGTTACTGCTTTTGGACCCCTTTTGGCTGTCTATGTGCTCTCTGACAGCTTTGG 2029  
QY 1896 GACCTATGCGCTCACTGAGAGCCAAATCAAGACTGTGCGGTGAAGAACTGAAGGTGGC 1955  
Db 2030 GACCTATGCGCTCACTGAGAGCCAAATCAAGACTGTGCGGTGAAGAACTGAAGGTGGC 2089  
QY 1956 GGTTTTGGCTGCATGCTCTGTAACCTCCCTGGAATTAACAATGAGAGTTTACTGTGGA 2015  
Db 2090 GGTTTTGGCTGCATGCTCTGTAACCTCCCTGGAATTAACAATGAGAGTTTACTGTGGA 2149  
QY 2016 CAATACCCCTTGTGCAATTTCAGAGAGTGGTTTTCAGATGAAGGCATCAAGGTGGAAGCT 2075  
Db 2150 CAATACCCCTTGTGCAATTTCAGAGAGTGGTTTTCAGATGAAGGCATCAAGGTGGAAGCT 2209  
QY 2076 CTTGGAAGAACCAAAATTTCTGCAATTTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGT 2135  
Db 2210 CTTGGAAGAACCAAAATTTCTGCAATTTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGT 2269  
QY 2136 CTTTGTATATTTCCCCCAATCTCTGGAAGATTTAAACCATTTCACTGCTGCCAGAACTCCC 2195  
Db 2270 CTTTGTATATTTCCCCCAATCTCTGGAAGATTTAAACCATTTCACTGCTGCCAGAACTCCC 2329  
QY 2196 GTTCTCCCGTGTGTCAGTAAACCGGACGCCCCCTGCACTGTGCTCTTCTCCCTGAGCG 2255  
Db 2330 GTTCTCCCGTGTGTCAGTAAACCGGACGCCCCCTGCACTGTGCTCTTCTCCCTGAGCG 2389  
QY 2256 TTATAGCCCACTACACCCAGTGTCTGCAAAATCTGCAATTCGCAAGTCCAGAGCTCAAGGCCA 2315  
Db 2390 TTATAGCCCACTACACCCAGTGTCTGCAAAATCTGCAATTCGCAAGTCCAGAGCTCAAGGCCA 2449  
QY 2316 TGAACAGATCTCTCAAGTGCAGACATCAATCTTAGAGAGTGAACAGAGAACCAATCACTTT 2375  
Db 2450 TGAACAGATCTCTCAAGTGCAGACATCAATCTTAGAGAGTGAACAGAGAACCAATCACTTT 2509  
QY 2376 CTTGCAACAAGAGGACAGCACTTTTCCCTGCAAGACTGCCCCCAAGCTTCAAAATTC 2435  
Db 2510 CTTGCAACAAGAGGACAGCACTTTTCCCTGCAAGACTGCCCCCAAGCTTCAAAATTC 2569  
QY 2436 CTACTCCATCAGACAGCGGATTTGTGCTACATTTGATATCCCAATGCCAAGGCAAGGA 2495  
Db 2570 CTACTCCATCAGACAGCGGATTTGTGCTACATTTGATATCCCAATGCCAAGGCAAGGA 2629  
QY 2496 CTGGCAGATGTTAGCAGACAGAAACCAAGCATCAAC--AGGAATTTATTTTTCCTAC 2552  
Db 2630 CTGGCAGATGTTAGCAGACAGAAACCAAGCATCAACAGGAGGAATTTATTTTTCCTAC 2689  
QY 2553 ACAAGTAGCCCATCTGCTGTCAATTTTGAACTGTGGGAAGTCTGTCATCAGCATGATGG 2612  
Db 2690 ACAAGTAGCCCATCTGCTGTCAATTTTGAACTGTGGGAAGTCTGTCATCAGCATGATGG 2749  
QY 2613 TGAATCTTGACTCCCTGGCCTGTGCTTGAAGAGATTTGGAGGACACACAGGAACCTCTC 2672  
Db 2750 TGAATCTTGACTCCCTGGCCTGTGCTTGAAGAGATTTGGAGGACACACAGGAACCTCTC 2809



QY 2673 AACATTTCAGATCCAGCTTGATGAAGCCGACTTCAACTACAGCAGGCAAAATGCACT 2732  
 |||||  
 Db 2810 AACATTTCAGATCCAGCTTGATGAAGCCGACTTCAACTACAGCAGGCAAAATGCACT 2869  
 |||||  
 QY 2733 CTAG 2736  
 |||||  
 Db 2870 CTAG 2873  
 |||||  
 RESULT 12  
 ID ADL24070 standard; cDNA; 2898 BP.  
 XX  
 AC ADL24070;  
 XX  
 XX 20-MAY-2004 (first entry)  
 XX  
 DE Human NOVX cDNA #58.  
 XX  
 KW Human; NOVX; gene; ss; G protein-coupled receptor; GPCR; cardiomyopathy;  
 KW atherosclerosis; hypertension; congenital heart defect; aortic stenosis;  
 KW atrial septal defect; ASD; atrioventricular canal defect;  
 KW ductus arteriosus; pulmonary stenosis; subaortic stenosis;  
 KW ventricular septal defect; VSD; tuberosus sclerosis; scleroderma; obesity;  
 KW adrenoleukodystrophy; congenital adrenal hyperplasia; prostate cancer;  
 KW neoplasm; adenocarcinoma; lymphoma; uterine cancer; haemophilia;  
 KW hypercoagulability; idiopathic thrombocytopenia purpura;  
 KW immunodeficiency; graft-versus-host disease; AIDS; bronchial asthma;  
 KW Crohn's disease; multiple sclerosis;  
 KW Albright's hereditary osteodystrophy; diabetes; infectious diseases;  
 KW anorexia; neurodegenerative disorder; Alzheimer's disease;  
 KW Parkinson's disease; haematopoietic disorder; metabolic disorder.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2004002120-A1.  
 PN  
 XX  
 XX 01-JAN-2004.  
 PD  
 XX  
 XX 07-MAR-2002; 2002US-00094886.  
 PF  
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 PR 08-MAR-2001; 2001US-0274194P.  
 PR 08-MAR-2001; 2001US-0274281P.  
 PR 08-MAR-2001; 2001US-0274322P.  
 PR 09-MAR-2001; 2001US-0274849P.  
 PR 12-MAR-2001; 2001US-0275235P.  
 PR 13-MAR-2001; 2001US-0275578P.  
 PR 13-MAR-2001; 2001US-0275579P.  
 PR 13-MAR-2001; 2001US-0275601P.  
 PR 14-MAR-2001; 2001US-0276000P.  
 PR 16-MAR-2001; 2001US-0276776P.  
 PR 19-MAR-2001; 2001US-0276994P.  
 PR 20-MAR-2001; 2001US-0277239P.  
 PR 20-MAR-2001; 2001US-0277327P.  
 PR 20-MAR-2001; 2001US-0277338P.  
 PR 21-MAR-2001; 2001US-0277791P.  
 PR 22-MAR-2001; 2001US-0277833P.  
 PR 23-MAR-2001; 2001US-0278152P.  
 PR 26-MAR-2001; 2001US-0278894P.  
 PR 27-MAR-2001; 2001US-0278999P.  
 PR 27-MAR-2001; 2001US-0279036P.  
 PR 30-MAR-2001; 2001US-0280233P.  
 PR 02-APR-2001; 2001US-0280802P.  
 PR 02-MAY-2001; 2001US-0288052P.  
 PR 02-MAY-2001; 2001US-0288066P.  
 PR 02-MAY-2001; 2001US-0288228P.  
 PR 17-MAY-2001; 2001US-0291766P.  
 PR 07-JUN-2001; 2001US-0296693P.  
 PR 08-JUN-2001; 2001US-0296856P.  
 PR 05-JUL-2001; 2001US-0303230P.  
 PR 05-JUL-2001; 2001US-0303237P.  
 PR 08-AUG-2001; 2001US-0310913P.

PR 13-AUG-2001; 2001US-0311978P.  
 PR 14-AUG-2001; 2001US-0312191P.  
 PR 16-AUG-2001; 2001US-0312916P.  
 PR 17-AUG-2001; 2001US-0313182P.  
 PR 20-AUG-2001; 2001US-0313626P.  
 PR 21-AUG-2001; 2001US-0314018P.  
 PR 27-AUG-2001; 2001US-0315227P.  
 PR 10-SEP-2001; 2001US-0318403P.  
 PR 10-SEP-2001; 2001US-0318510P.  
 PR 14-SEP-2001; 2001US-0322296P.  
 PR 14-SEP-2001; 2001US-0322360P.  
 PR 27-SEP-2001; 2001US-0325378P.  
 PR 09-NOV-2001; 2001US-0332486P.  
 PR 09-NOV-2001; 2001US-0345399P.  
 XX  
 PA (KEKU/) KEKUDA R.  
 PA (TCHE/) TCHERNEV V T.  
 PA (LIUX/) LIU X.  
 PA (SPYT/) SPYTEK K A.  
 PA (PATT/) PATTURAJAN M.  
 PA (BURG/) BURGESS C E.  
 PA (VERN/) VERNET C A M.  
 PA (LILL/) LI L.  
 PA (GORM/) GORMAN L.  
 PA (MALI/) MALYANKAR U M.  
 PA (BOLD/) BOLDOG F L.  
 PA (GUOX/) GUO X.  
 PA (SHEN/) SHENOY S G.  
 PA (PADI/) PADIGARU M.  
 PA (TAUP/) TAUPIER R J.  
 PA (MILL/) MILLER C E.  
 PA (CASW/) CASMAN S J.  
 PA (PENA/) PENNA C E A.  
 PA (GANG/) GANGOLLI E A.  
 PA (GUSE/) GUSEV V Y.  
 PA (SMIT/) SMITHSON G.  
 PA (ZERH/) ZERHUSEN B D.  
 PA (GERL/) GERLACH V.  
 PA (POCH/) POCHART P F.  
 PA (FERN/) FERNANDES E R.  
 PA (SHIM/) SHIMKETS R A.  
 PA (RASI/) RASTELLI L.  
 PA (SPAD/) SPADERNA S K.  
 PA (LARO/) LAROCHELLE W J.  
 PA (ZHON/) ZHONG M.  
 PA (KHRA/) KHRAMTSOV N V.  
 PA (VOSS/) VOSS E Z.  
 PA (HERR/) HERRMANN J L.  
 XX  
 PI Kekuda R, Tchernev VT, Liu X, Spytek KA, Patturajan M;  
 PI Burgess CE, Vernet CAM, Li L, Gorman L, Malyankar UM, Boldog FL;  
 PI Guo X, Shenoy SG, Padigar M, Taupier RJ, Miller CE, Casman SJ;  
 PI Pena CE, Gangolli EA, Gusev VY, Smithson G, Zerhuseen BD, Gerlach V;  
 PI Pochart PF, Fernandes ER, Shimkets RA, Rastelli L, Spaderna SK;  
 PI Larochelle WJ, Zhong M, Khrantsov NV, Voss EZ, Herrmann JL;  
 WPI; 2004-212692/20.  
 DR P-PSDB; ADL24071.  
 DR  
 XX  
 PT Novel isolated G protein-coupled receptor polypeptides, referred as NOVX,  
 PT useful for treating scleroderma, obesity, congenital adrenal hyperplasia,  
 PT prostate cancer, hemophilia, AIDS, bronchial asthma, Crohn's disease.  
 XX  
 PS Claim 23; SEQ ID NO 115; 287pp; English.  
 XX  
 CC The invention relates to human G protein-coupled receptor-related (GPCR-  
 CC related) polypeptides (designated NOVX) and the polynucleotides encoding  
 CC them. The polypeptides and polynucleotides are useful as therapeutics in  
 CC the manufacture of medicaments for treating syndromes associated with  
 CC human diseases. The sequences are useful for treating a disorder  
 CC associated with aberrant NOVX expression or activity such as  
 CC cardiomyopathy, atherosclerosis, hypertension, congenital heart defects,  
 CC aortic stenosis, atrial septal defect (ASD), atrioventricular canal





Query Match		81.1%;	Score 2220;	DB 10;	Length 2661;
Best Local Similarity		91.1%;	Pred. No. 0;		
Matches 2493;		Conservative	0;	Mismatches	0; Indels 243; Gaps 3;
Qy	124	CTTCCGGAATCCATCCATCAGCTCTCTGGGACACTGCTCCCTCATTTTCATAGAGGAGCCAGAT	183		
Db	1	CTTCCGGAATCCATCCATCAGCTCTCTGGGACACTGCTCCCTCATTTTCATAGAGGAGCCAGAT	60		
Qy	184	GATGCTTATATATCAAGAGCAACCTATTGCACTCAGGTGCAAGCGAGGCCAGCCATG	243		
Db	61	GATGCTTATATATCAAGAGCAACCTATTGCACTCAGGTGCAAGCGAGGCCAGCCATG	120		
Qy	244	CAGATATTTCTAAATGCAACCGGAGTGGTCCATCAGAACGAGCAGCTCTCTGAGAG	303		
Db	121	CAGATATTTCTAAATGCAACCGGAGTGGTCCATCAGAACGAGCAGCTCTCTGAGAG	180		
Qy	304	ACTCTGGACGAGAGCTCAGGTTTGAAGGTCGCGAAGTGTTCATCAATGTTACTAGGCAA	363		
Db	181	ACTCTGGACGAGAGCTCAGGTTTGAAGGTCGCGAAGTGTTCATCAATGTTACTAGGCAA	240		
Qy	364	CAGGTGGAGACTTCCATGCGGCCGAGGACTATTGTCGCGAGTGTGCGGCTGGAGCCAC	423		
Db	241	CAGGTGGAGACTTCCATGCGGCCGAGGACTATTGTCGCGAGTGTGCGGCTGGAGCCAC	300		
Qy	424	CTGGGTACCTCAAGAGCAGGAGGCTCTGTGCGCATAGCCTATTATTACGGAAAACTTTT	483		
Db	301	CTGGGTACCTCAAGAGCAGGAGGCTCTGTGCGCATAGCCTATTATTACGGAAAACTTTT	360		
Qy	484	GAACAAGACCCACAAGGAGGGAAGTTCCCATTTGAAGGATGATTTACTGCACTGCCGC	543		
Db	361	GAACAAGACCCACAAGGAGGGAAGTTCCCATTTGAAGGATGATTTACTGCACTGCCGC	420		
Qy	544	CCAACGAGGAGTCCCTGCTGCGAGGTGGAAATGGCTGAAATGAAGAGCCCATTTGAC	603		
Db	421	CCAACGAGGAGTCCCTGCTGCGAGGTGGAAATGGCTGAAATGAAGAGCCCATTTGAC	480		
Qy	604	TCGTGAACAGACGAGAACATTGACACAGGCTGACCAATACCTGATCATCAGGAGGCA	663		
Db	481	TCGTGAACAGACGAGAACATTGACACAGGCTGACCAATACCTGATCATCAGGAGGCA	540		
Qy	664	CGGCTCTCGGACTCAGGAAATTACCTGATGCGGAGCAACATCGTGGCTAAGAGGAGA	723		
Db	541	CGGCTCTCGGACTCAGGAAATTACCTGATGCGGAGCAACATCGTGGCTAAGAGGAGA	600		
Qy	724	AGCCTGTCGCCCACTGTTGTGCTTAC-----	750		
Db	601	AGCCTGTCGCCCACTGTTGTGCTTAC-----	660		
Qy	751	-----	750		
Db	661	TCAGCCTGCAATGTTGCTCTGTGTAGAGGATGGCAGAAAGCTTCCCGGACCTGCACCAAC	720		
Qy	751	-----	750		
Db	721	CCAGCTCTCTCAATGTTGGGGCTTTTGTGAGGGAATGTCACTGCAGAAAAATAACCTGC	780		
Qy	751	-----	795		
Db	781	ACTTCTCTTGTCTGTGGATGGAGCTGGGAAGTGTGGAGGGAATGGTCCGTCTGCAGT	840		
Qy	796	CCAGAGTGTGAACATTTTCGGATCCGGGAGTGCAACAGCACCACCCCGAGAAATGGGGC	855		
Db	841	CCAGAGTGTGAACATTTTCGGATCCGGGAGTGCAACAGCACCACCCCGAGAAATGGGGC	900		
Qy	856	AAATCTGTGAAGTCTAAGCCAGGAATCTGAAAACTGCAAGATGCTCTTTCATCCTTA	915		
Db	901	AAATCTGTGAAGTCTAAGCCAGGAATCTGAAAACTGCAAGATGCTCTTTCATCCTTA	960		
Qy	916	GATAAAAACCTCTTCATGAAATAAAACCCCAAGCAATTCAGATGCGACGACATTGCT	975		
Db	961	G-----	987		

Qy	976	TTGTACTCGGCTTGGGTGCTCCGCTGTCGCGCTTGCAGTCTCTGGTCAATGGTGTACAC	1035		
Db	988	TTGTACTCGGCTTGGGTGCTCCGCTGTCGCGCTTGCAGTCTCTGGTCAATGGTGTACAC	1047		
Qy	1036	CTTTACAGACGAGGACGAGAGTGAATATGGCGTGTGAGCGTCAATGACTCTTTCGATTTGACA	1095		
Db	1048	CTTTACAGACGAGGACGAGAGTGAATATGGCGTGTGAGCGTCAATGACTCTTTCGATTTGACA	1107		
Qy	1096	GCTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAGGCAAGAAATCATGGAACATA	1155		
Db	1108	GCTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAGGCAAGAAATCATGGAACATA	1146		
Qy	1156	ATGATACAAGAAAAATCTTTGGTAACTCCCTGCTCTCTGAATTTCTGCAATGAGCAGCAGAT	1215		
Db	1147	-----GTTAACTCCCTGCTCTCTGAATTTCTGCAATGAGCAGCAGCAGAT	1185		
Qy	1216	CTGACAGTGTGAGCGGACATACAGCGGACCCATCTGTCTGTGACGAGCCCTCTGGACAGGAG	1275		
Db	1186	CTGACAGTGTGAGCGGACATACAGCGGACCCATCTGTCTGTGACGAGCCCTCTGGACAGGAG	1245		
Qy	1276	CTCATGACAGAGTCTCTCACTCTTTAAACCTTTTGTGCGACATCAAAAGTCAAAAGTCCAGAGC	1335		
Db	1246	CTCATGACAGAGTCTCTCACTCTTTAAACCTTTTGTGCGACATCAAAAGTCAAAAGTCCAGAGC	1305		
Qy	1336	TCGTTCAATGTTTCCCTGCGAGTGTCTGAGAGAGTGTGAGAGAGTGTGAGAGAGTCAATTC	1395		
Db	1306	TCGTTCAATGTTTCCCTGCGAGTGTCTGAGAGAGTGTGAGAGAGTGTGAGAGAGTCAATTC	1365		
Qy	1396	AGGACTTTTCCCATGGAACCAACACAGCTTTAGTACAAATGCAATCCAGAAATAAATG	1455		
Db	1366	AGGACTTTTCCCATGGAACCAACACAGCTTTAGTACAAATGCAATCCAGAAATAAATG	1425		
Qy	1456	CCCTACATCCAAATCTGTCTCACTCTCCCAACAGGACAGAACTGAGGACAACTGCTGTCT	1515		
Db	1426	CCCTACATCCAAATCTGTCTCACTCTCCCAACAGGACAGAACTGAGGACAACTGCTGTCT	1485		
Qy	1516	TTTGCCCAATTTAGGGGGCGCTTAGTAATGCAAAATACAGGGGTGAGCTTACTATACCA	1575		
Db	1486	TTTGCCCAATTTAGGGGGCGCTTAGTAATGCAAAATACAGGGGTGAGCTTACTATACCA	1545		
Qy	1576	CAGGTGCTATCCAGAGGAGGAAATTTTGGGAGATTTATGCTCCATCAACCAAGTGAA	1635		
Db	1546	CAGGTGCTATCCAGAGGAGGAAATTTTGGGAGATTTATGCTCCATCAACCAAGTGAA	1605		
Qy	1636	CCAGCCTCCAGTCAAGATGGCTCTGAGGTGCTCTGAGTCTCTGAAAGTCACTGTGTCT	1695		
Db	1606	CCAGCCTCCAGTCAAGATGGCTCTGAGGTGCTCTGAGTCTCTGAAAGTCACTGTGTCT	1665		
Qy	1696	CCAGACATGATCGTCAACCTCCCTTTGCAATGACCATCCGCACTGTGAGATGTCAGT	1755		
Db	1666	CCAGACATGATCGTCAACCTCCCTTTGCAATGACCATCCGCACTGTGAGATGTCAGT	1725		
Qy	1756	TCGTGAGCATTTGGAATATCCATTTAAAGAGAGGACACAGCAGGCGAAATGGGAGGAGTG	1815		
Db	1726	TCGTGAGCATTTGGAATATCCATTTAAAGAGAGGACACAGCAGGCGAAATGGGAGGAGTG	1785		
Qy	1816	ATGTCAGTGGAGAGATGAATCTACATCTCTGTTACTGCTTTTGGACCCCTTTGCGTGTCA	1875		
Db	1786	ATGTCAGTGGAGAGATGAATCTACATCTCTGTTACTGCTTTTGGACCCCTTTGCGTGTCA	1845		
Qy	1876	GTGCTCTGGAAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAAATCAGACTGTGCG	1935		
Db	1846	GTGCTCTGGAAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAAATCAGACTGTGCG	1905		
Qy	1936	GTGAACCAACTGAAGGTGGCGGTTTTTGGCTGCTGCTGCTGTAACCTCCCTGGATTAACAAC	1995		
Db	1906	GTGAACCAACTGAAGGTGGCGGTTTTTGGCTGCTGCTGCTGTAACCTCCCTGGATTAACAAC	1965		
Qy	1996	TTGAGAGTTTACTGTGTGAGCAATACCCCTTTGTGCAATTTTTCAGAAAGTGTTCAGATGAA	2055		
Db	1966	TTGAGAGTTTACTGTGTGAGCAATACCCCTTTGTGCAATTTTTCAGAAAGTGTTCAGATGAA	2025		
Qy	2056	AGGCATCAAGGTGGACAGCTCTCTGGAGAAACCAAAATTTGCTGCTATTTTCAAGGGAATACC	2115		



QY	1234	TACAGCGGACCCATCTGTCTGCAGGACCCCTCTGGACAAGAGCTCATGACAGAGTCTCTCA	1293
Db	541	TACAGCGGACCCATCTGTCTGCAGGACCCCTCTGGACAAGGAGCTCATGACAGAGTCTCTCA	600
QY	1294	CTCTTTAAACCCCTTTGTTCGGACATCAAAAGTGAAGAGTCCAGAGCTCGTTTCATGTTTTCCCTG	1353
Db	601	CTCTTTAAACCCCTTTGTTCGGACATCAAAAGTGAAGTCCAGAGCTCGTTTCATGTTTTCCCTG	660
QY	1354	GGAGTGTCTGAGAGAGCTGAGTACACCGGCAAGAATCATTTCCAGGACTTTTCCCCATGGA	1413
Db	661	GGAGTGTCTGAGAGAGCTGAGTACACCGGCAAGAATCATTTCCAGGACTTTTCCCCATGGA	720
QY	1414	AACAAACACAGCTTTTAGTACAATGCATCCACAGAAATAAAATGCCCTATACATCCAAAATCTG	1473
Db	721	AACAAACACAGCTTTTAGTACAATGCATCCACAGAAATAAAATGCCCTATACATCCAAAATCTG	780
QY	1474	TCATCACTCCCCACAAGGACAGAACTCAGAGCAACTGGTCTCTTTGGCCAAATTTAGGGGGG	1533
Db	781	TCATCACTCCCCACAAGGACAGAACTCAGAGCAACTGGTCTCTTTGGCCAAATTTAGGGGGG	840
QY	1534	CGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACACAACGGTGCCATCCCAAGAG	1593
Db	841	CGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACACAACGGTGCCATCCCAAGAG	900
QY	1594	GAGAAATCTTTGGGAGATTTATATGTCCATCAACCAAGGTGAACCCAGCTCCAGTCAGAT	1653
Db	901	GAGAAATCTTTGGGAGATTTATATGTCCATCAACCAAGGTGAACCCAGCTCCAGTCAGAT	960
QY	1654	GGCTCTGAGGTGCTCTGAGTCTCTGAAGTCACTGTGGTCCCTCCAGACATGATCGTCACC	1713
Db	961	GGCTCTGAGGTGCTCTGAGTCTCTGAAGTCACTGTGGTCCCTCCAGACATGATCGTCACC	1020
QY	1714	ACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTCGGAATATC	1773
Db	1021	ACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTCGGAATATC	1080
QY	1774	CATTTAAAGAGGACACACAGAGGGCAATGGAGGAAGTGAATGTCAGTGGGAAGATGAA	1833
Db	1081	CATTTAAAGAGGACACACAGAGGGCAATGGAGGAAGTGAATGTCAGTGGGAAGATGAA	1140
QY	1834	TCTACATCCCTGTACTGCTCTTTGGACCCCTTTGCGTGTGTCATGCTCTCTGGACAGCTTT	1893
Db	1141	TCTACATCCCTGTACTGCTCTTTGGACCCCTTTGCGTGTGTCATGCTCTCTGGACAGCTTT	1200
QY	1894	GGGACCTATGCGCTCACTGGAGAGCCAAATCACAGACTGTGCGGTGAAGCAACTGAAGGTG	1953
Db	1201	GGGACCTATGCGCTCACTGGAGAGCCAAATCACAGACTGTGCGGTGAAGCAACTGAAGGTG	1260
QY	1954	CGCGTTTTTGGCTGCATGTCCTGTAACTCCCTGGATTAACAATTTGAGAGTTTACTGTGTG	2013
Db	1261	CGCGTTTTTGGCTGCATGTCCTGTAACTCCCTGGATTAACAATTTGAGAGTTTACTGTGTG	1320
QY	2014	GACAAATACCCCTTGTGCAATTTACGGAAGTGGTTTCAGATGAAGGCATCAAGTGGACAG	2073
Db	1321	GACAAATACCCCTTGTGCAATTTACGGAAGTGGTTTCAGATGAAGGCATCAAGTGGACAG	1380
QY	2074	CTCCTGAAGAACCAAAATTTGCTGCATTTCAAAGGGGAATACCTTTAGTCTTTCAGATTCTT	2133
Db	1381	CTCCTGAAGAACCAAAATTTGCTGCATTTCAAAGGGGAATACCTTTAGTCTTTCAGATTCTT	1440
QY	2134	GTCCTTGATATTTCCCCCAATTCCTCTGGAGAAATAAACCAATTCATGCTGCCAGGAAGTC	2193
Db	1441	GTCCTTGATATTTCCCCCAATTCCTCTGGAGAAATPAACCAATTCATGCTGCCAGGAAGTC	1500
QY	2194	CCGTTCTCCGCGTGTGGTGAGTAACCGGAGGCCCTCTGCACTGTGCTTCTCCCTGGAG	2253
Db	1501	CCGTTCTCCGCGTGTGGTGAGTAACCGGAGGCCCTCTGCACTGTGCTTCTCCCTGGAG	1560
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Db	1561	CGTTATACGCCACTACCAACCGTCTCTGCAAAATCTGCAATTCGGCAGCTCAAGGC	1620
QY	2314	CATGAAACAGATCTCTTCCAAAGTGCAGACATCAATCCTAGAGAGTGAACAGAGAAACCATCACT	2373

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Db	1741	CCCTACTCCATCAGACAGCGGATTTGTGCTTACATTTTGATACCCCCCAATGCGCAAGGCAAG	1800		
Qy	2494	GACTGGCAGATGTTAGCACAGAAAACAGCATCAACAGGAATTTATCTTATTTTCGCTACA	2553		
Db	1801	GACTGGCAGATGTTAGCACAGAAAACAGCATCAACAGGAATTTATCTTATTTTCGCTACA	1860		
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ID	ADR44604 standard; cDNA; 2010 BP.				
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DT	04-NOV-2004 (first entry)				
XX	Novel human protein (NHP) encoding cDNA #14.				
DE	Novel human protein; NHP; drug screening; clinical trial monitoring;				
XX	cancer; arthritis; cosmetic application; cytostatic; virucidal;				
KW	gene therapy; human; SNP; single nucleotide polymorphism; chromosome 8;				
KW	gene; ss.				
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OS	Homo sapiens.				
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XX					
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XX					
PF	02-OCT-2001; 2001US-00969532.				
XX					
PR	02-OCT-2000; 2000US-0237280P.				
XX					
PA	(LEXI-) LEXICON GENETICS INC.				
XX					

PI Walke DW, Scoville J;  
 XX WPI; 2004-591302/57.  
 DR P-PSDB; ADR44605.  
 XX  
 PT New isolated human proteins and nucleic acids, useful for diagnosing,  
 PT drug screening, clinical trial monitoring, or treating diseases and  
 PT disorders, e.g. treating cancer, arthritis, or as antiviral agents.  
 XX  
 XX Disclosure; SEQ ID NO 27; 52pp; English.  
 XX  
 XX The present invention provides novel human proteins (NHPs) and their  
 CC encoding polynucleotides. The invention is useful for diagnosis, drug  
 CC screening, clinical trial monitoring, treatment of diseases and disorders  
 CC such as cancer and arthritis and cosmetic applications. The invention  
 CC acts as a cytostatic and virucidal agent. The invention is useful in gene  
 CC therapy. The present sequence is a novel human protein (NHP) encoding  
 CC cDNA. The NHP encoding cDNA is located on human chromosome 8.  
 XX  
 XX Sequence 2010 BP; 523 A; 523 C; 484 G; 480 T; 0 U; 0 Other;

Query Match 71.9%; Score 1967; DB 13; Length 2010;  
 Best Local Similarity 98.4%; Pred. No. 0;  
 Matches 2010; Conservative 0; Mismatches 0; Indels 33; Gaps 1;

QY 694 ATGGCAGCCACATCGTGGCTAAGAGGAGAGAGCCTGTGGCCACTGTGTGGTCTACGTCG 753  
 DB 1 ATGGCAGCCACATCGTGGCTAAGAGGAGAGAGCCTGTGGCCACTGTGTGGTCTACGTCG 60  
 QY 754 GATGGGAGCTGGGAAGTGTGGAGCGGAATGGTGGTCTGCAAGTCCAGAGTGTGAACATTTG 813  
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 QY 814 CGGATCCGGAGTGCACAGCACACACCCCGAGAAATGGGGGCAAAATCTGTGAAGTCTA 873  
 DB 121 CGGATCCGGAGTGCACAGCACACACCCCGAGAAATGGGGGCAAAATCTGTGAAGTCTA 180  
 QY 874 AGCCAGGATCTGAAACTGCACAGATGGTCTTTGGATCTAGATATAAAACCTCTTCAT 933  
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Db	1768	GACTGGCAGATGTTAGCACAGAAAAACAGCATCAACAGGAATTTATCTTATTTGCTACA	1827
Qy	2554	CAAGTAGCCCACTGCTGTCAATTTGAACCTGTGGAGCTGTCATCAGCATGATGGT	2613
Db	1828	CAAGTAGCCCACTGCTGTCAATTTGAACCTGTGGAGCTGTCATCAGCATGATGGT	1887
Qy	2614	GATCTTGACTCCCTGGCCTGTGCTTGAAGAGATTGGGAGGACACACAGAACTCTCA	2673
Db	1888	GATCTTGACTCCCTGGCCTGTGCTTGAAGAGATTGGGAGGACACACAGAACTCTCA	1947
Qy	2674	AACATTTCAAGATCCCACTGCTGATGAAGCCGACTTCAACTACAGAGGCAAAATGGAATC	2733
Db	1948	AACATTTCAAGATCCCACTGCTGATGAAGCCGACTTCAACTACAGAGGCAAAATGGAATC	2007
Qy	2734	TAG	2736
Db	2008	TAG	2010

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